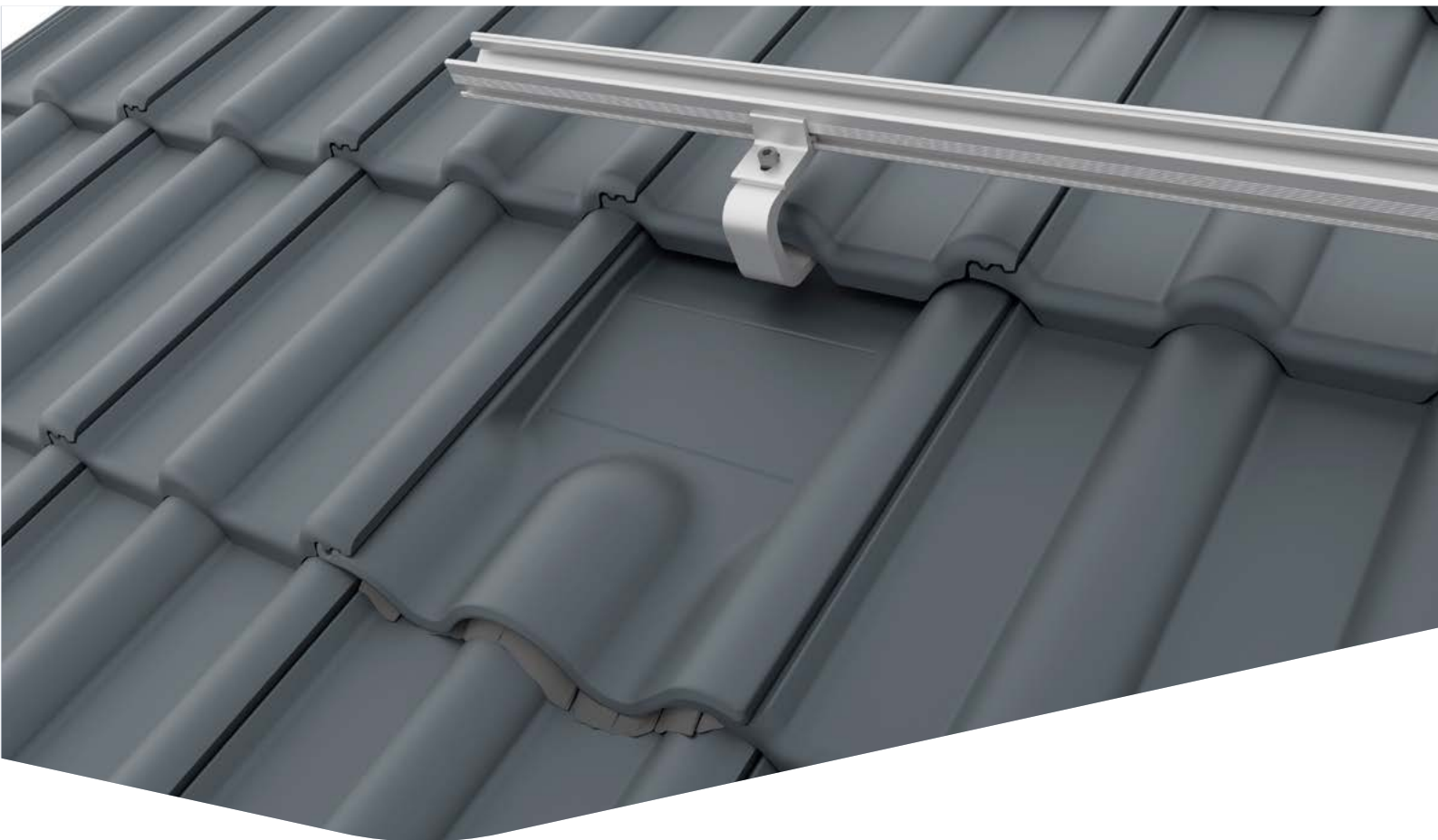




Connecting Strength



Assembly instructions

K2 4Tile

**Metal replacement tile for
concrete roof tiles**

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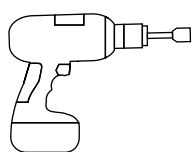
Quality tested - several certifications

K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

k2-systems.com/en/technical-information

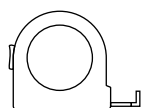
Tools overview



TX25/40



4/5/6/8.5 mm



≥3.0 m



≥6.0 m

General safety information

Please note that our general mounting instructions must be followed at all times and can be viewed online at k2-systems.com

- The equipment may only be installed and operated by qualified and adequately trained installers.
- Prior to installation, ensure that the product complies with on-site static loading requirements. For roof-mounted systems, the roof load-bearing capacity must always be checked.
- National and local building regulations and environmental requirements must be adhered to.
- Compliance with health and safety regulations, accident prevention guidelines and applicable standards is required.
 - Protective equipment such as safety helmet, boots and gloves must be worn.
 - Roofing works must be in accordance with roofing regulations utilising fall protection safeguards when eaves height exceeds 3 m.
 - At least two people must be present for the duration of the installation work in order to provide rapid assistance in the event of an emergency.
- K2 mounting systems are continuously developed and improved and the installation process may thereby change at any time. Prior to installation consult our website at k2-systems.com/en/technical-information for up-to-date instructions. We can send you the latest version on request.
- The assembly instructions of the module manufacturer must be adhered to.
- Equipotential bonding/grounding/earthing between individual parts is to be performed according to country specific standards, as well as national laws and regulations.
- At least one copy of the assembly instructions should be available on site throughout the duration of the installation.
- Failure to adhere to our general safety and assembly instructions and not using all system components, K2 is not liable for any resulting defects or damages. We do not accept liability for any damage resulting in the use of competitor's parts. Warranty is excluded in such cases.
- German law shall apply excluding the UN Convention on CISG. Place of venue is Stuttgart. Our General Terms of Business apply.
- If all safety instructions are adhered to and the system is correctly installed, there is a product warranty entitlement of 12 years! We strongly recommend reviewing our terms of guarantee, which can be viewed at k2-systems.com/en/warranty-terms-and-conditions We will also send this information on request.
- Dismantling of the system is performed in reverse order to the assembly.
- K2 stainless steel components are available in different corrosion resistance classes. Each structure or component must be carefully checked for possible corrosion exposure.

The following guidelines apply



This system can be used without further testing by K2 Systems in the following standard conditions. The system is also suitable for higher requirements. However, if a value exceeds the standard conditions, please contact K2 Systems.



Planning with K2 Base

We recommend our free online software K2 Base for the planning. In five steps, you can plan the right assembly system and get a construction recommendation, parts list and the structural analysis report. Simply register and start planning: base.k2-systems.com



Roof requirements

- The sufficient holding force of the roof covering at the support or substructure must be ensured on site.
- Roof pitch of 22 - 75°
- Sufficient load reserves to support the PV system.

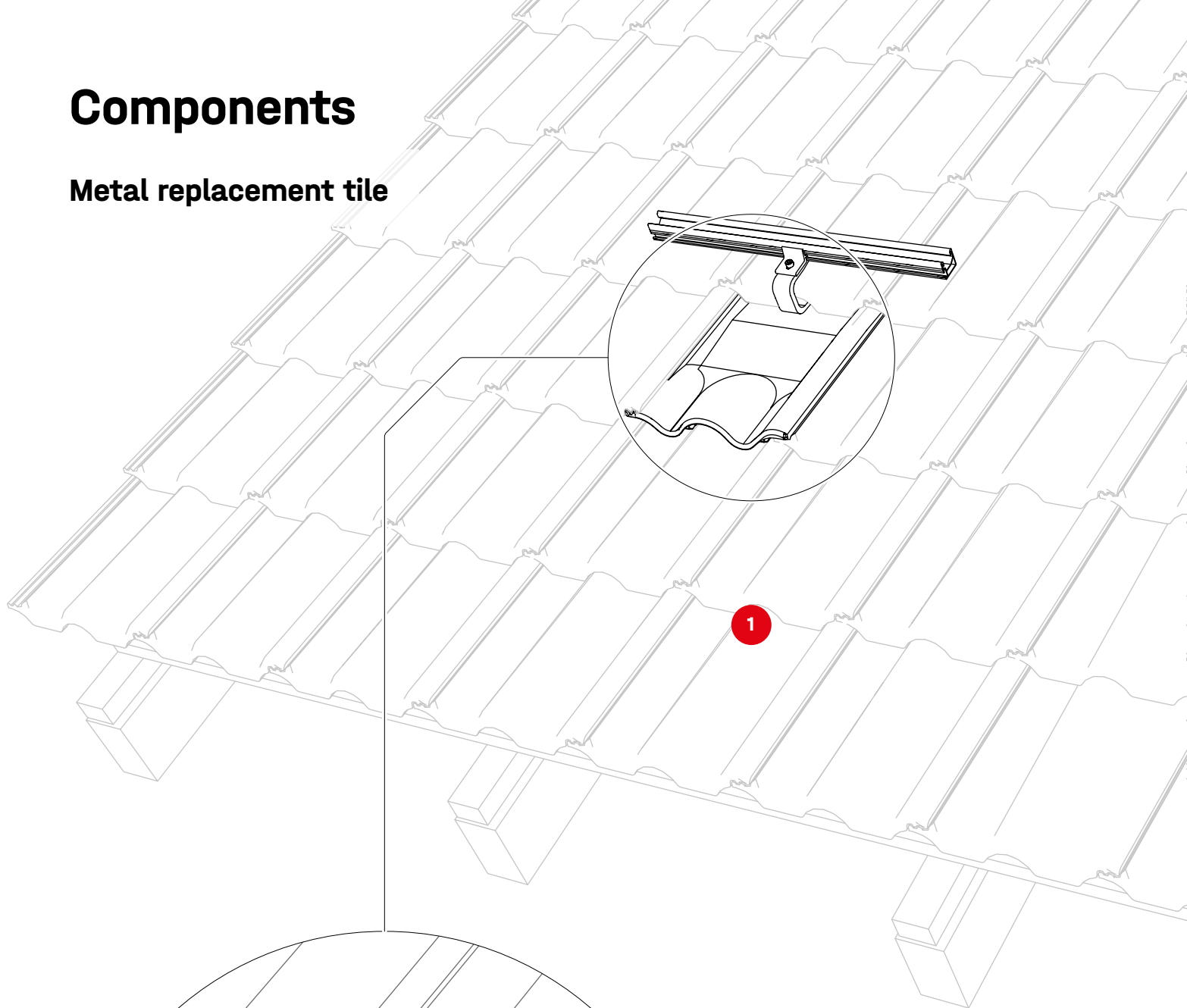


Important mounting instructions

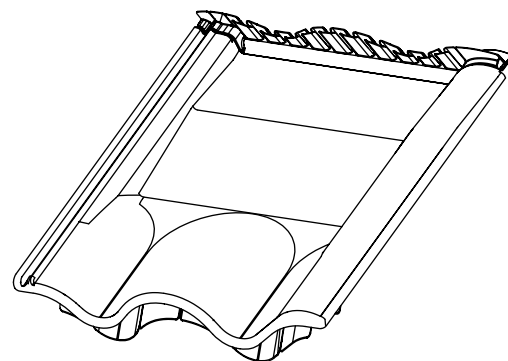
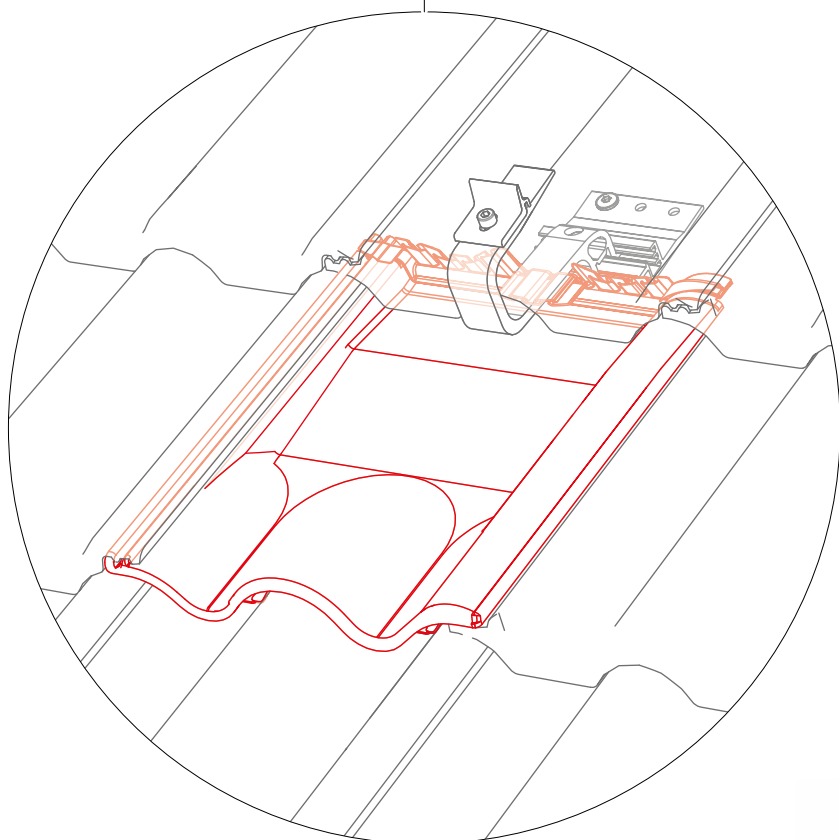
- On-site general standards and regulations for lightning protection must be observed and consultation with a specialist to create a lightning protection concept is recommended (use lightning protection clamp if necessary).
- Please refer to our Handbook "Wood Screw Fixation of K2 Roof Hooks" for the installation of all roof hooks
k2-systems.com/en/handbook-roof-hooks
- When installing K2 4Tile, further installation instructions relating to roof hooks may be relevant. Please refer to the following installation instructions:
 - [SingleHooks](#)
 - [SolidHooks](#)
- Do not step on roof hooks, metal replacement tiles or rails, as these are not climbing assists.

Components

Metal replacement tile



- 1** 2005297/2005298/2005306
K2 4Tile
Metal replacement tile
Concrete grey/
concrete galvanised/
brick red



Solutions without tile modification

Note: The position of the tile crest determines whether tile modification is required. The metal replacement tile can only be installed without modifying the concrete roof tile if the tile crest is located in the rafter area.

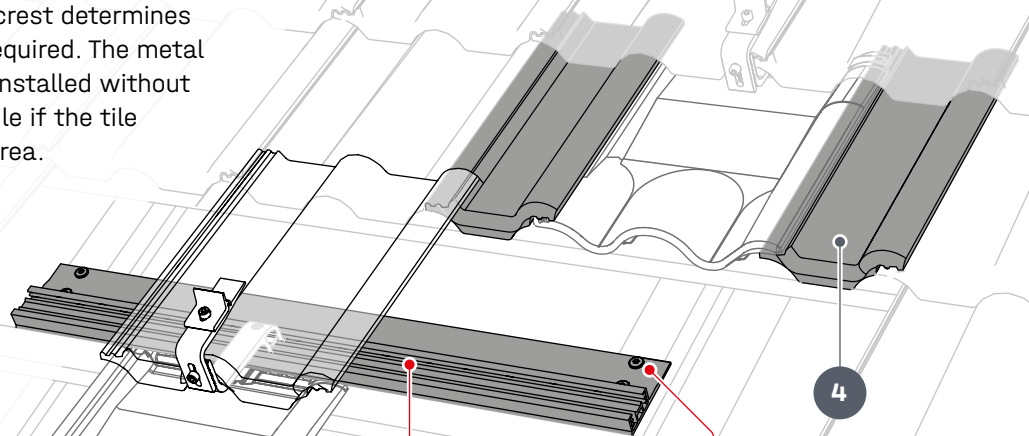
The following two solutions allow installation of the metal replacement tile without modifying the concrete roof tile.

SingleBoard

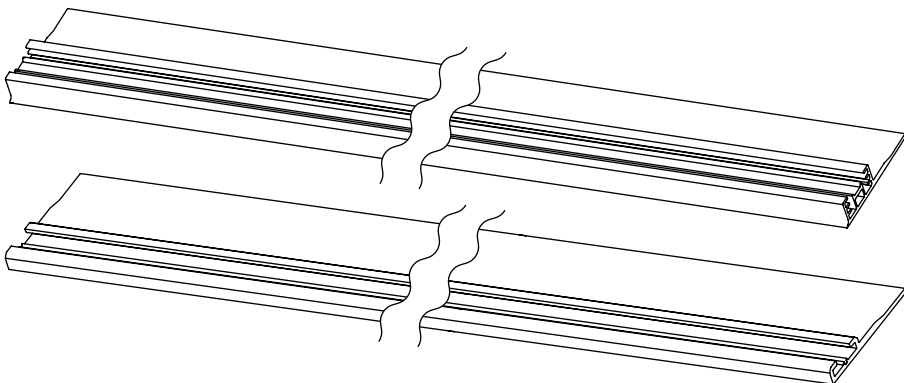
Installation of a **SingleBoard** spanning two rafters: the roof hook arm is positioned and secured in the SingleBoard channel directly at the tile crest.

Half Tiles

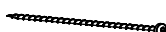
Use of **half tiles** to align the position of the metal replacement tile with the rafter and tile crest.



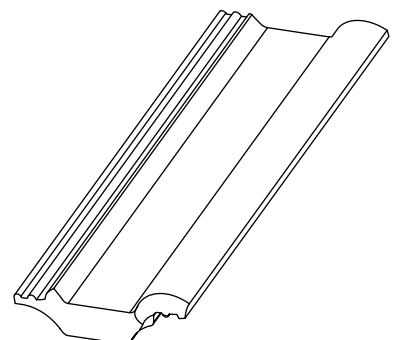
- 2** 2001972/2002935
**SingleBoard 3S/4S /
SingleBoard**



- 3** Item no. project specific
Wood screw, flange head



- 4** **Concrete half tiles**
Select from the corresponding
roof tile series.



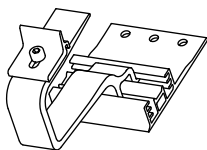
Compatible roof hooks for metal replacement tile *



SingleRail

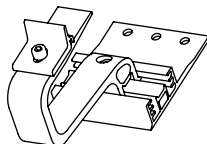
SingleHook 3S Light (2004795)

Material: aluminium; stainless steel



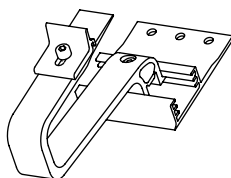
SingleHook 3S (2003215)

Material: aluminium; stainless steel



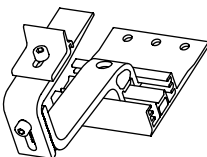
SingleHook 3S Long (2004222)

Material: aluminium; stainless steel



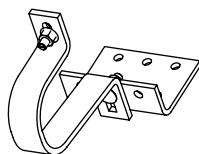
SingleHook 4S (2003144)

Material: aluminium; stainless steel



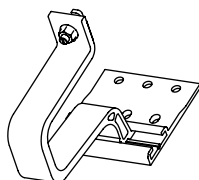
SingleHook Vario (2002651)

Material: stainless steel



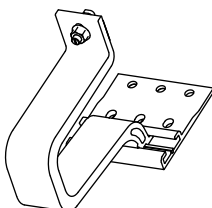
SingleHook 1.1 (2001928)

Material: aluminium



SingleHook Alpin (2003155)

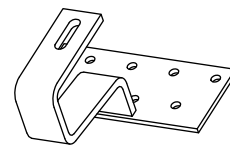
Material: aluminium



SolidRail

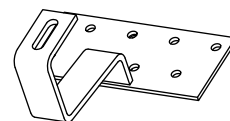
Roof Hook for Pan Tile (Alpin) (1000764)

Material: stainless steel



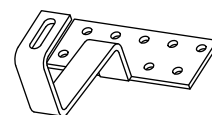
SolidHook Pan Tile H38/124 35 × 6 (1000096)

Material: stainless steel



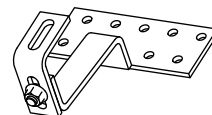
Roof Hook for Pan Tile H47/134 30 × 6 (1000001)

Material: stainless steel



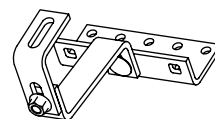
SolidHook Vario 1 (1000125)

Material: stainless steel



SolidHook Vario 2 (1000107)

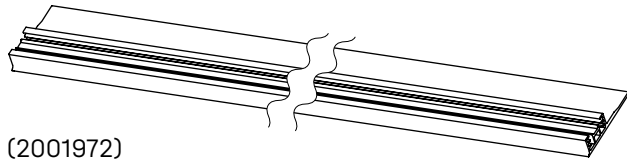
Material: stainless steel



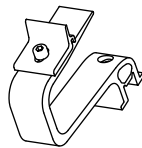
* Depending on the batten height and roof tile thickness, an underlay may be required beneath the roof hook.

Compatible roof hooks for SingleBoards

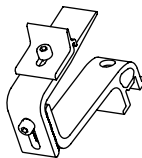
Baseplate SingleBoard 3S/4S



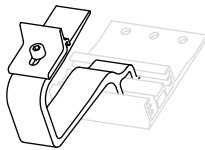
Roof Hook bracket SingleHook 3S (2004900)



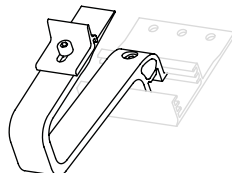
Roof Hook bracket SingleHook 4S (2002927)



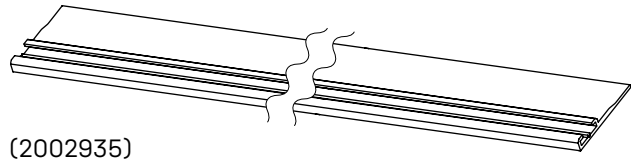
Roof Hook SingleHook 3S Light (2004795)



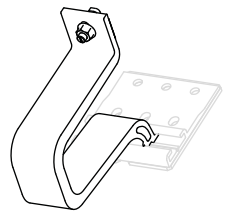
Roof Hook SingleHook 3S Long (2004222)



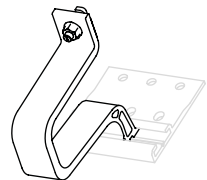
Baseplate SingleBoard



Roof Hook SingleHook Alpin (2003155)



Roof Hook SingleHook 1.1 (2001928)



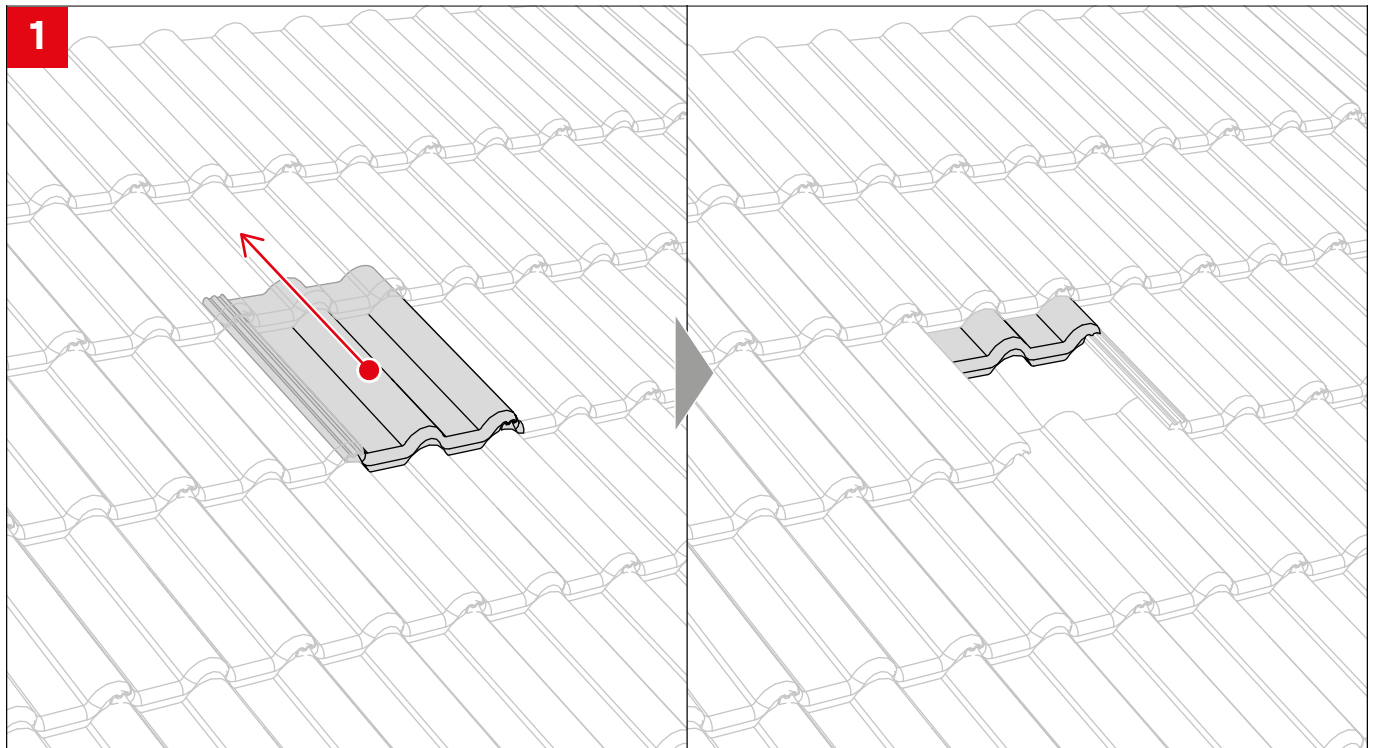
Compatible concrete roof tiles with K2 4Tile

Manufacturer	Concrete roof tile
Benders	▸ Mecklenburger
	▸ Palema pantile
Braas	▸ Frankfurter pantile
	▸ Taunus pantile
	▸ Harzer pantile
	▸ Doppel-S
	▸ Double Romane

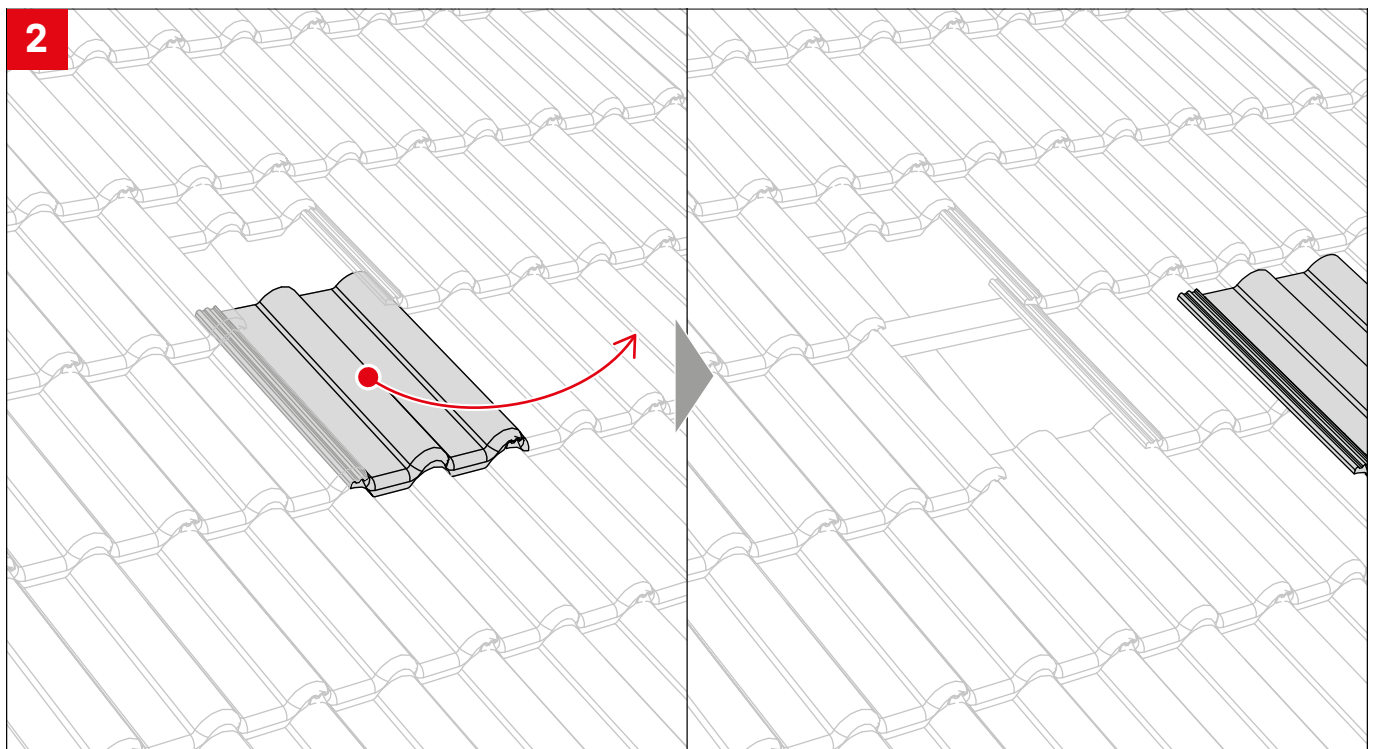
Manufacturer	Concrete roof tile
Bramac	▸ Montero
	▸ Classic
	▸ Adria
	▸ Dolomit
	▸ Donau
Nelskamp	▸ Finkenberger pantile
	▸ S-Pfanne
	▸ Sigma pantile
Wienerberger	▸ Heidelberg (Creaton)

Assembly

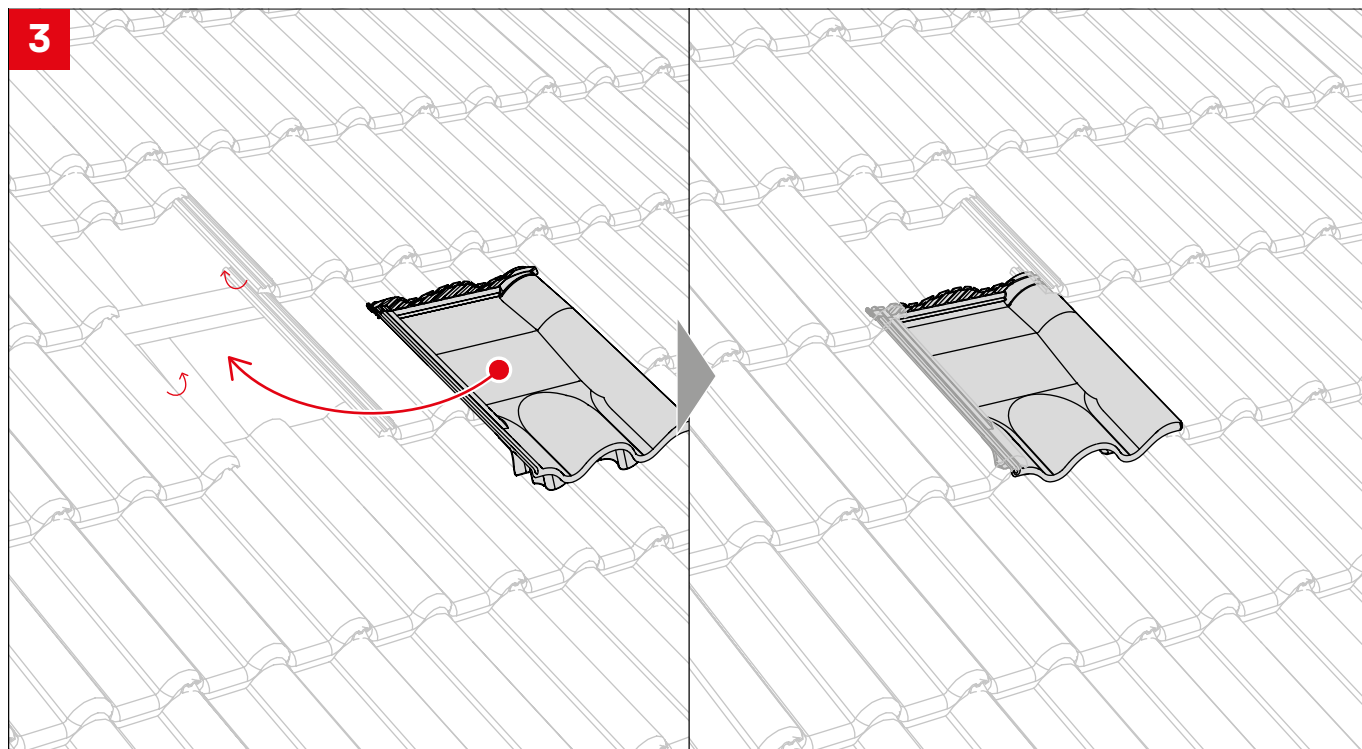
Slide up the roof tile



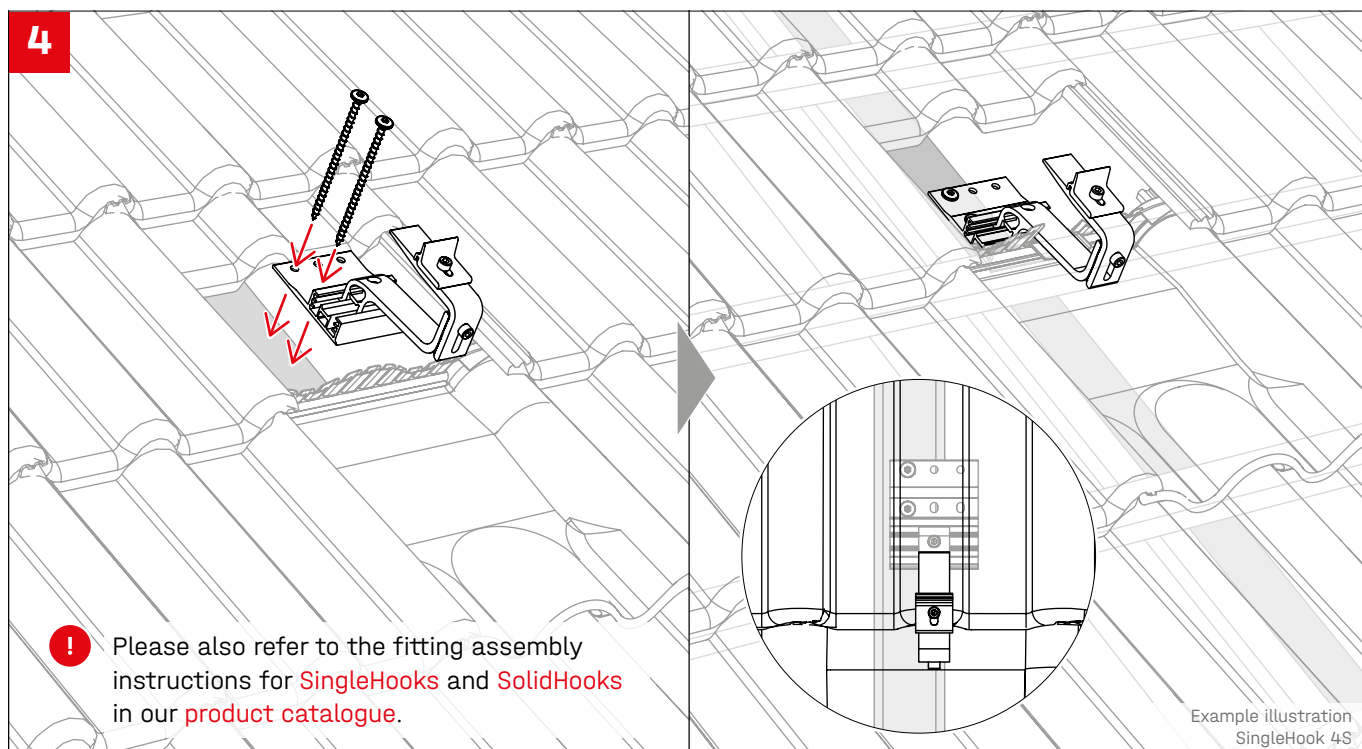
Remove roof tile

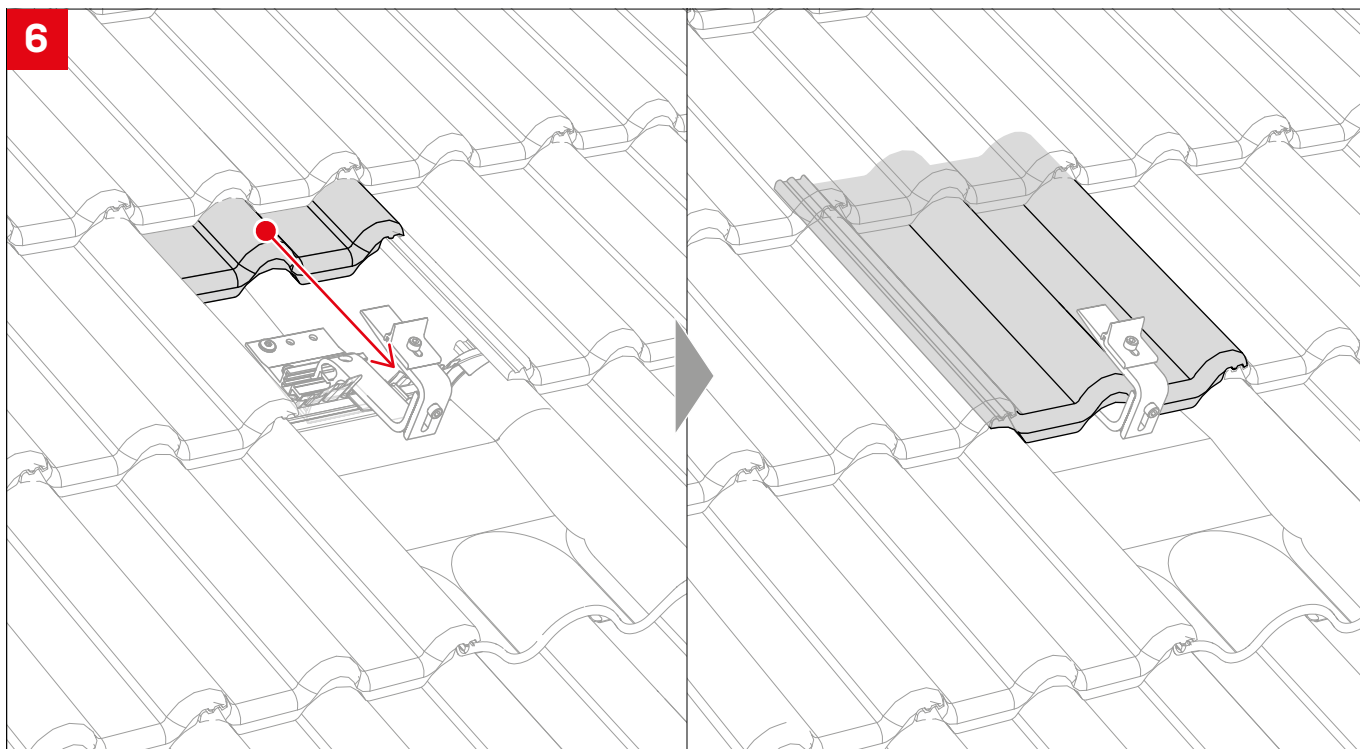


Insert the K2 4Tile



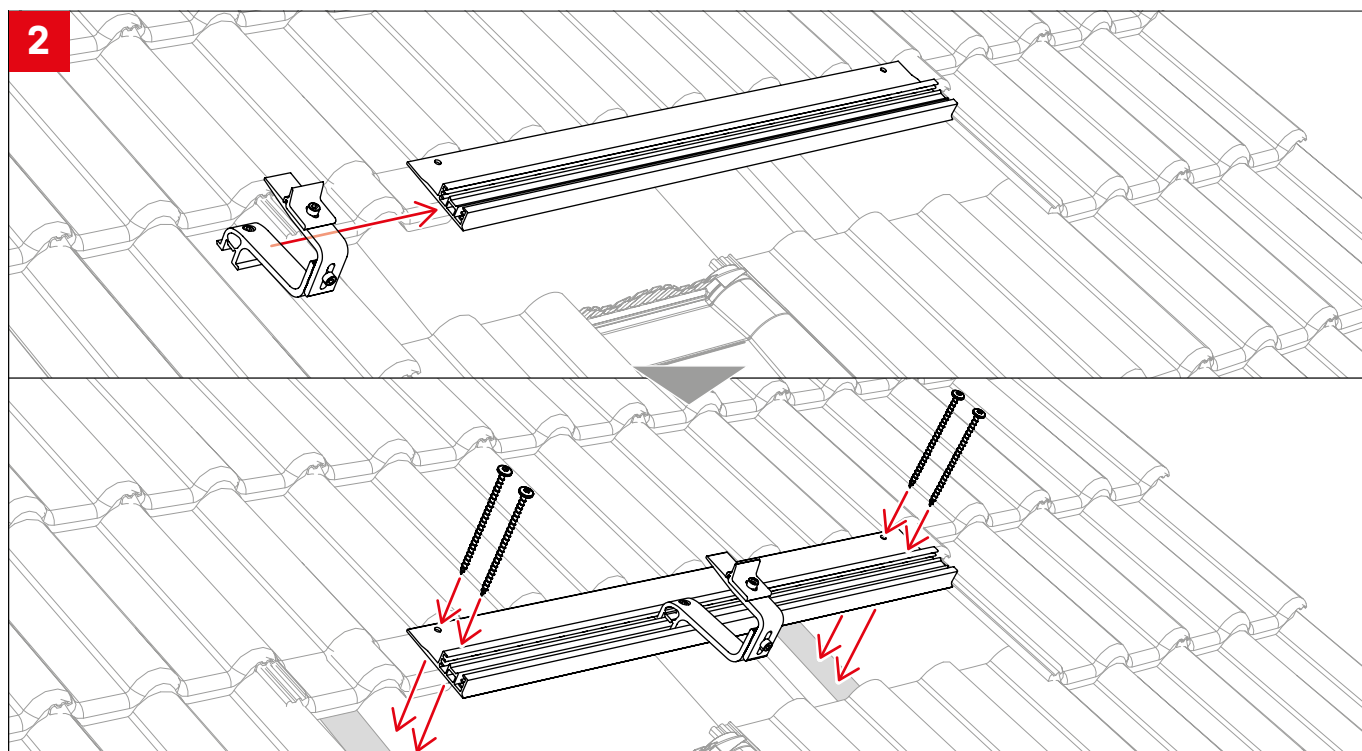
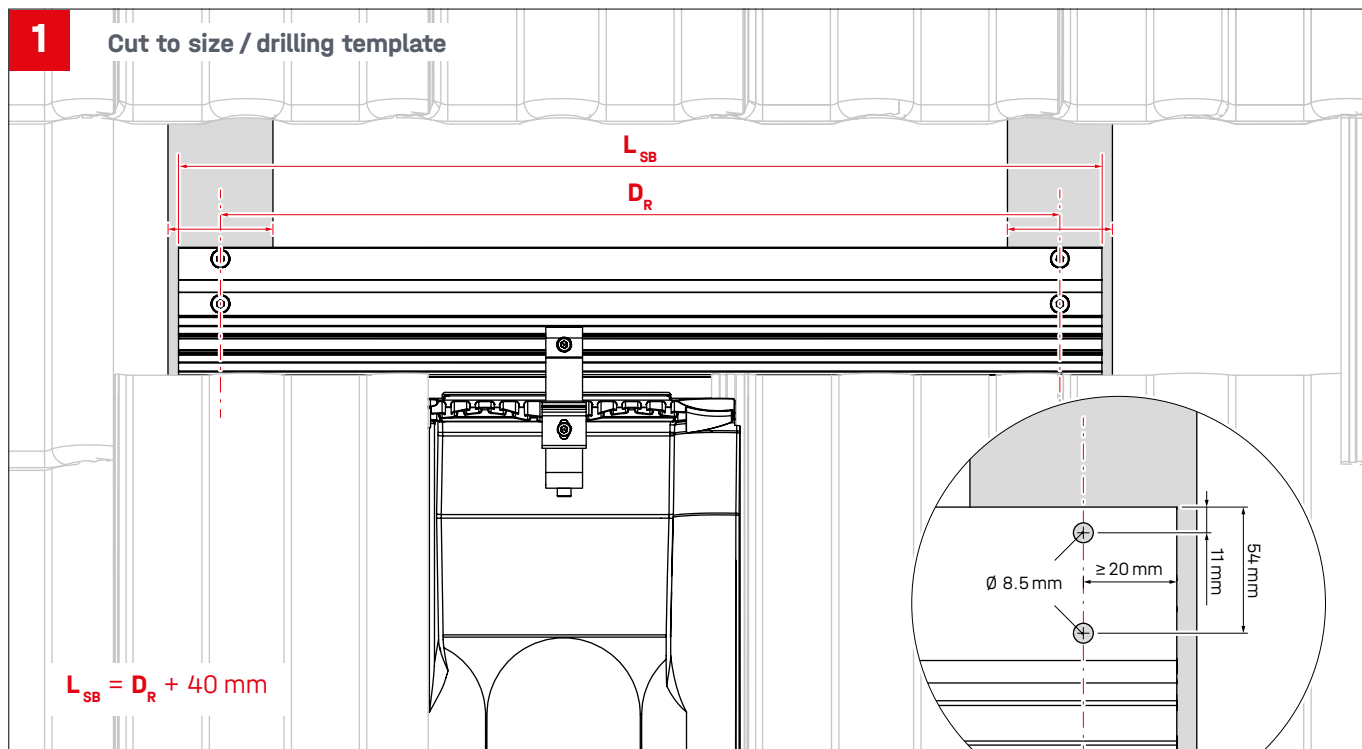
Secure the roof hook

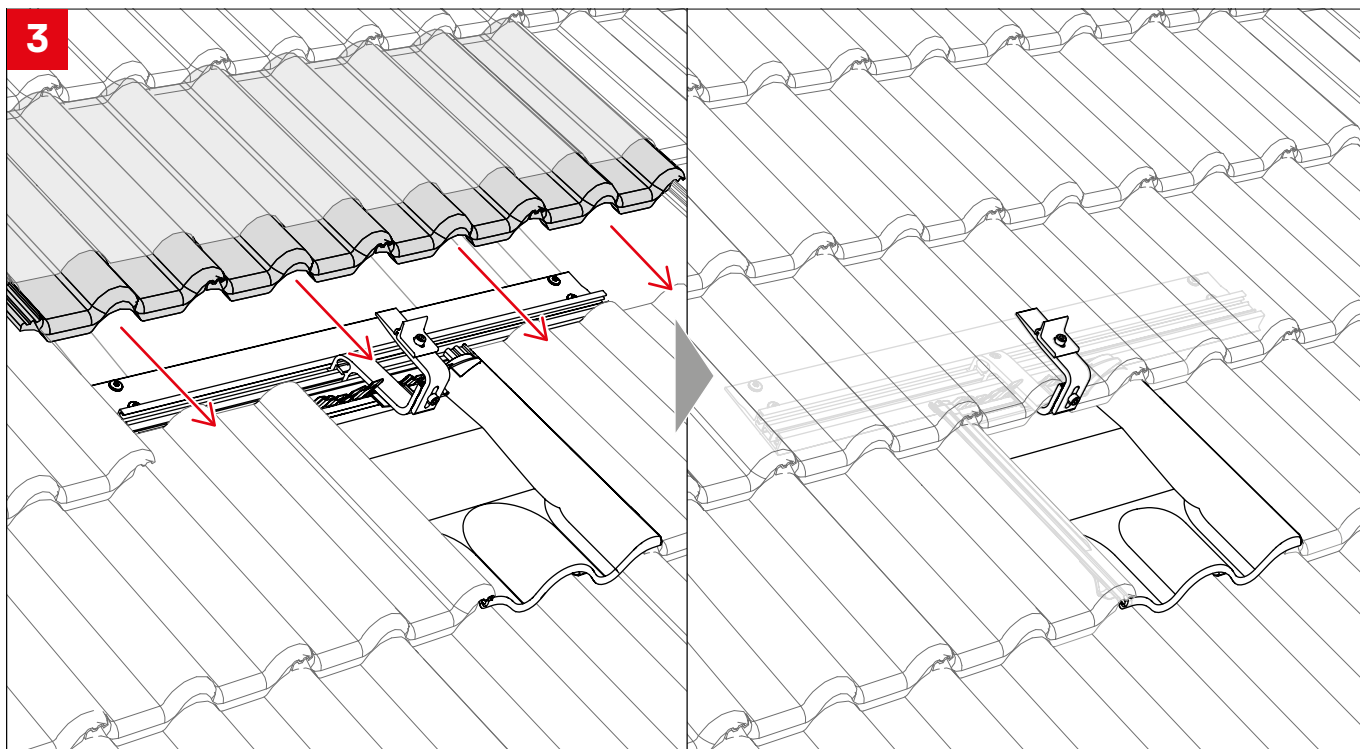




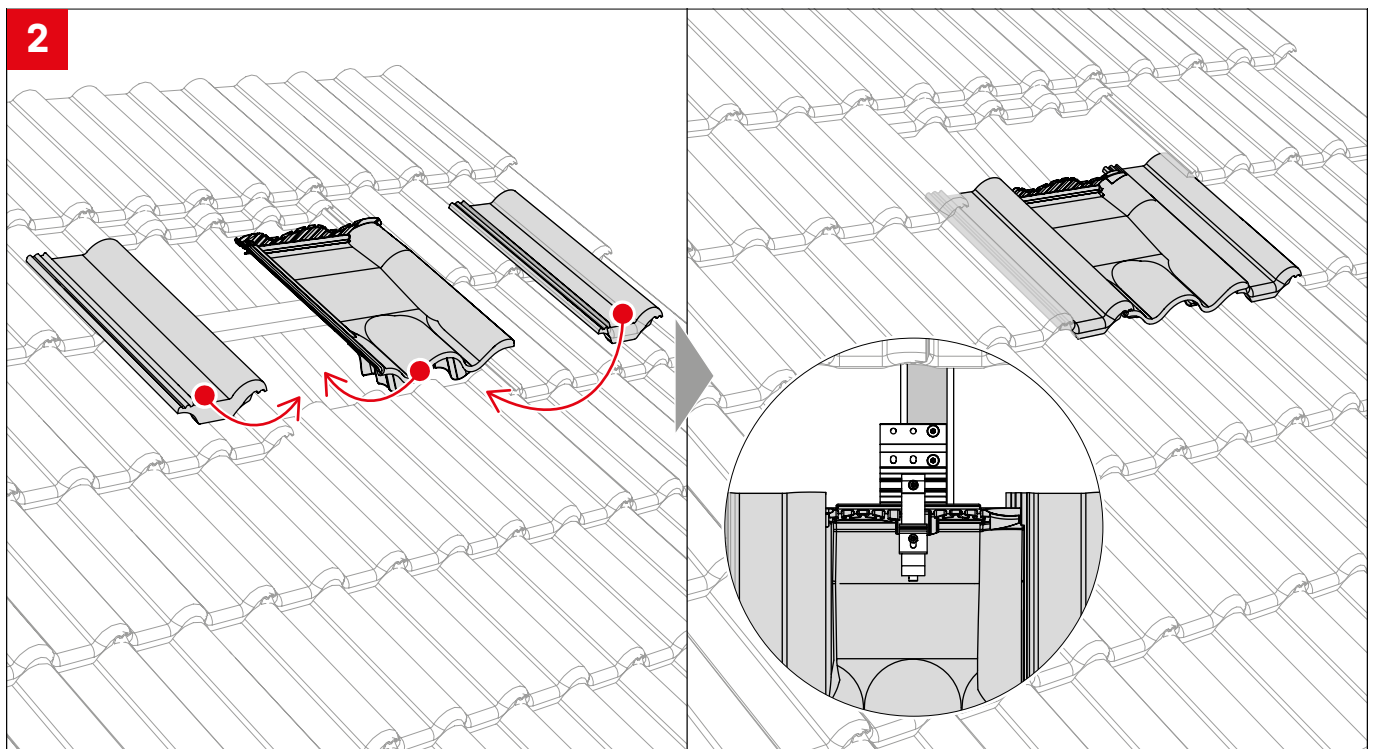
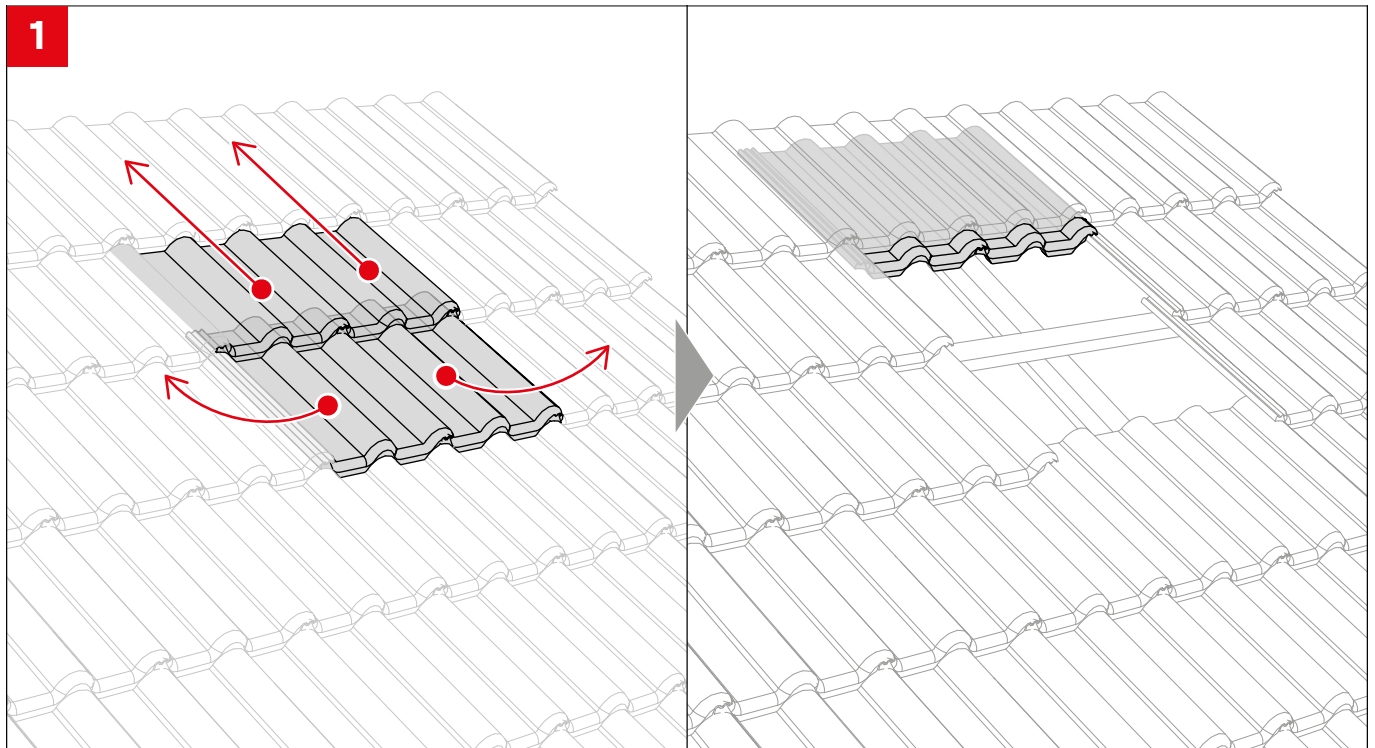
Solutions without tile modification

SingleBoard





Half tiles





Connecting Strength

Thank you for choosing a K2 mounting system.

Mounting systems from K2 Systems are quick and easy to install. We hope these instructions have helped. Please contact us with any questions or suggestions for improvement. Our contact data:

- k2-systems.com/en/contact
- **Service Hotline: +49 7159 42059-0**

Our General Terms of Business apply. Please refer: k2-systems.com

K2 Systems GmbH

Haldenstraße 1 · 71272 Renningen · Germany
+49 (0) 7159 - 42059 - 0 · info@k2-systems.com · k2-systems.com

Metal Replacement Tile Assembly EN v1 | 0926 Subject to change
Product illustrations are exemplary and may differ from the original.