

ZAS 40XS	214500011
ZAS 40XL	214500012
ZAS 41XS	214500013
ZAS 41XL	214500014



## Rafter fasteners for the sat antennas CAS 06/60/80/90 and KEA 650/750/850/1000

### About this guide

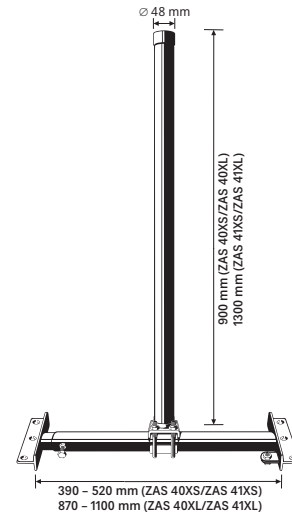
This document is part of the product.

- ▶ Do not install or use the device until you have read and understood this document.
- ▶ Perform all operating steps described in this manual in the specified sequence.
- ▶ Keep this document for reference throughout the service life of the device. Pass this document on to any new owner or user.

For the most up-to-date version of this document, go to [www.kathrein-ds.com](http://www.kathrein-ds.com).

### Features

- ZAS 40XS/ZAS 40XL for one sat antenna  
ZAS 41XS/ZAS 41XL for one sat antenna and an additional radio antenna
- Mounting directly from the outside or through the battens onto the rafter
- Flexibly adjustable to the gaps between the rafters by means of a telescopic tube
- Continuously adjustable for any roof slope (limited only by the cover plate)
- Hot-dip galvanised
- Cable is inserted through mast tip by means of the ZTC 08 (included in the scope of delivery of the ZTS 40/ZTS 41ro/ZTS 41sw)
- Designed to withstand lightning current (100 kA, 10/350 µs according to DIN VDE 0855-300)



### Scope of delivery

- Rafter fastener
- 6 wood screws 10 x 100 mm
- Earthing terminal
- Mast cover
- 4 nuts M10
- Fastening screw M10 x 20
- User manual

### Intended use

The ZAS 40XS, ZAS 40XL, ZAS 41XS und ZAS 41XL are rafter fasteners for mounting parabolic antennas with a diameter of up to Ø 100 cm on the roof. Any other use, or failure to comply with these instructions or documentation and instructions enclosed with the devices, will result in voiding of warranty or guarantee.

### Technical data

Type	Einheit	ZAS 40XS	ZAS 41XS	ZAS 40XL	ZAS 41XL
Order no.		214500011	214500013	214500012	214500014
Length	mm	900	1300	900	1300
Diameter	mm	48			
Gaps between rafters	mm	390 – 520		870 – 1100	
Roof slope	°	0 – 90			
Rafter frame dimensions	mm	390 – 520 x 148 x 40		870 – 1100 x 148 x 40	
Suitable for sat antennas		CAS 06/CAS 60/CAS 80/CAS 90, KEA 650/750/850/1000			
Suitable mounting accessories		see „Mounting sets ZTS 40/ZTS 41ro/ZTS 41sw“ on page 1			
Packing unit	mm	980 x 200 x 115	1380 x 200 x 115	980 x 200 x 115	1380 x 200 x 115
Perm. bending moment	Nm	700			
Packing unit/weight, approx.	pc./kg	1/5,7	1/6,6	1/7,1	1/8,0

### Mounting sets ZTS 40/ZTS 41ro/ZTS 41sw

- For securing the rafter fasteners ZAS 4x
- Consists of:
  - ZTB 61: Lead cover plate (410 x 410 mm)
  - ZTB 60ro/ZTB 60sw: Aluminium cover plate (500 x 450 mm)
  - ZTC 08: Mast cap for insertion of eight or ten cables
  - ZTC 48: Cover collar (Ø 48 mm)



The items in the sets are also available individually. Please find further mounting accessories under [www.kathrein-ds.com](http://www.kathrein-ds.com)

## Installation

### Safety instructions



#### WARNING!

#### Danger of falling during assembly work on the roof.

- ▶ The equipment described may only be installed by trained specialist personnel.
- ▶ Make sure that the supporting structure has sufficient load-bearing capacity.
- ▶ Wear stable shoes with non-slip soles.
- ▶ Make sure that the roof and climbing aid are dry, clean and non-slip.
- ▶ **Mount the sat antenna (max. ø 100 cm) only up to a height of 800 mm (see sticker marking).**
- ▶ For a mast length of 1300 mm (ZAS 41XS/ZAS 41XL), install the reflector below and the FM antenna above.

### Required tools

- Drill bit Ø 6.5 mm
- 17 AF open-ended spanner
- Spirit level

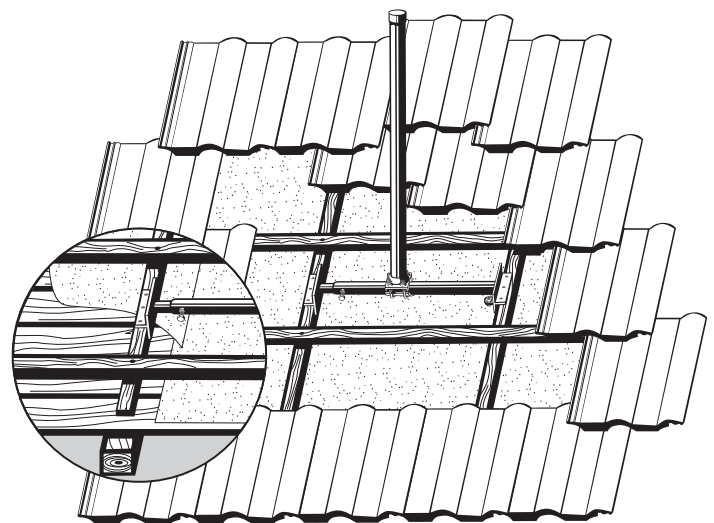
### Installing the rafter fastener

1. Remove a sufficient number of roof tiles.
2. Extend the rafter fastener to the width of rafters or counter battens.



Align the rafter fastener and the lead cover plate to suit the covering materials of the roof. Take care to leave enough overhang above and below the gap in the roofing material.

The cross-tube of the ZAS 40 and ZAS 41 rafter fasteners has an offset of about 2 cm relative to the side securing clips. Depending on the alignment, this offset allows the rafter fastener to be moved upwards or downwards within the roof space and, for instance, in the conjunction with the rafter fastener installation set ZTS 40, to achieve an optimum position relative to the existing roof tiles. When installing on steeper roofs, make sure the shorter securing section points downwards relative to the slope of the roof.



3. Mark six screw holes on rafters or counter battens.
4. Pre-drill screw holes 50 mm deep using a Ø 6,5 mm drill bit.
5. Screw in the six wood screws 10 x 100 mm from above on the rafters or counter battens using an A7 19 open-ended spanner. If the counter battens are too thin, place a suitable piece of wood underneath the rafter bracket in the areas of the bolts.
6. Tighten the fastening screw of the telescopic tube using an AF 17 open-ended spanner.
7. Place the earthing wire (16 mm<sup>2</sup> copper or 25 mm<sup>2</sup> aluminium) into the earthing terminal and tighten the nut.
8. Slide the mast along the telescopic tube in such a way that the cover plate matches the joints of the roof tiles.
9. If you intend to lead cables through the mast tip, remove the mast cap.
10. Swing the mast towards the gable and pull the cover plate and the cover collar over the mast tip.
11. Mark six screw holes on rafters or counter battens.
12. Pre-drill screw holes 50 mm deep using a Ø 6,5 mm drill bit.
13. Screw in the six wood screws 10 x 100 mm from above on the rafters or counter battens using an A7 19 open-ended spanner. If the counter battens are too thin, place a suitable piece of wood underneath the rafter bracket in the areas of the bolts.
14. Tighten the fastening screw of the telescopic tube using an AF 17 open-ended spanner.
15. Place the earthing wire (16 mm<sup>2</sup> copper or 25 mm<sup>2</sup> aluminium) into the earthing terminal and tighten the nut.
16. Slide the mast along the telescopic tube in such a way that the cover plate matches the joints of the roof tiles.
17. If you intend to lead cables through the mast tip, remove the mast cap.
18. Swing the mast towards the gable and pull the cover plate and the cover collar over the mast tip