

ZAS 40	21410011
ZAS 40XS	214500011
ZAS 40XL	214500012
ZAS 41	21410012
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.

Merkmale

- ZAS 40 | ZAS 40XS | ZAS 40XL for one sat antenna
ZAS 41 | ZAS 41XS | ZAS 41XL for one sat antenna and an additional radio antenna *) ZAS 40 and ZAS 41 TÜV-approved
- 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)
- Not suitable for plain roof tiles

Intended use

ZAS 40, ZAS 40XS, ZAS 40XL, ZAS 41, ZAS 41XS and 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 Order no.		ZAS 40 20410011	ZAS 41 20410012	ZAS 40XS 214500011	ZAS 41XS 214500013	ZAS 40XL 214500012	ZAS 41XL 214500014
Mast-Ø		48	48	48	48	48	48
Length	mm	900	1300	900	1300	900	1300
Gaps between rafters		510 – 900	510 – 900	390 – 520	390 – 520	870 – 1100	870 – 1100
Roof slope	°	0 – 90					
Rafter frame dimensions	mm	510 – 900 x 148 x 40		390 – 520 x 148 x 40		870 – 1100 x 148 x 40	
Suitable for sat antennas		CAS 60 CAS 06 CAS 80 CAS 90 KEA 650 KEA 750 KEA 850 KEA 1000					
Suitable mounting accessories		ZTS40 ZTS 41ro ZTS 41sw					
Perm. bending moment ¹⁾	Nm	700					
Verpackungseinheit/Gewicht	St./kg	1/6,5	1/7,5	1/5,7	1/6,6	1/7,1	1/8,0

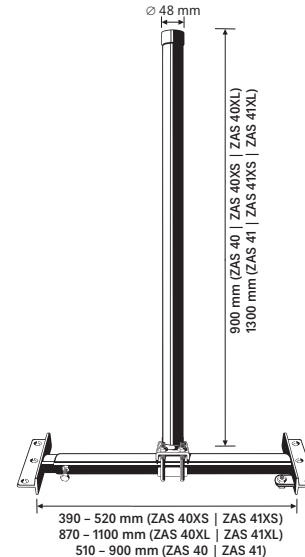
¹⁾ The wind load capacity of the mast tube has already been taken into account (applies to 800 N/m² and 1100 N/m²). Wind load calculation in accordance with EN 60728-11

Mounting sets ZTS40/ZTS 41ro/ZTS 41sw

- 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 48mm)



The items in the sets are also available individually. Please find further mounting accessories under www.kathrein-ds.com



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

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

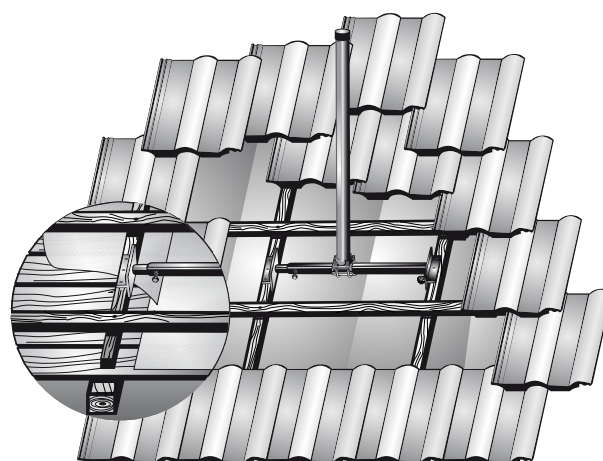
1. Remove a sufficient number of roof tiles.
2. Adjust the rafter supports to the width of the rafters or the counter-battens.



Align the rafter bracket and the lead flashing with the roofing material on the roof surface. Ensure there is sufficient overlap at the top and bottom, depending on the roofing material.

The cross-tube of the ZAS 4x rafter bracket is offset by approximately 2 cm in relation to the side mounting tabs. Depending on the alignment, this offset allows the rafter bracket to be mounted further up or further down on the rafters in the loft, enabling, for example, in conjunction with the ZTS 40 rafter bracket installation kit, optimal adaptation to the existing roof tiles. When installing on steeper roofs, position the shorter fixing section facing downwards relative to the roof pitch.

3. Mark six screw holes on the rafters or the counter-battens.
4. Pre-drill the screw holes to a depth of 50 mm using a 6.5 mm diameter drill bit.
5. Tighten the rafter brackets to the rafters or counter-battens from above using the six 10 x 100 mm fixing screws and a 17 mm open-ended spanner. If the counter-battens are too thin in the area where the rafter brackets rest, place a suitable piece of timber underneath.
6. Tighten the locking screw on the telescopic tube using a 17 mm open-ended spanner.
7. Insert the earth wire (16 mm² copper or 25 mm² aluminium) into the earth terminal and tighten the nut.
8. Move the mast along the telescopic tube so that the cover plate fits into the roof tile joint.
9. If you intend to feed cables through the top of the mast, remove the mast cap.



10. Tilt the mast towards the gable and pull the cover plate and the cover collar over the top of the mast.
11. Fit the inner part of the ZTC 08 mast cover with the cap open.
12. Fold the mast down further and feed the required number of cables through the opening at the bottom of the mast.
13. Push the cable towards the top of the mast until it protrudes by a sufficient length.
14. Press the cables into the cable holders at the top of the mast tip.
15. Close the mast cap.
16. Use a spirit level to ensure the mast is vertical.
17. Tighten the four nuts (M10) using a 17 mm open-ended spanner.
18. Place the cover sheet onto the mast and fold the top and side edges of the sheet upwards by approx. 2 cm to ensure that any rainwater that enters is channelled safely onto the roofing beneath.
19. Pull the cover collar over the feed nozzle of the cover plate.
20. Roofing.

Service-Support-Contact



You can find all the relevant information (address, telephone number, email address, opening hours) regarding repairs or assistance with problems relating to our products at:

<https://www.kathrein-ds.com/support/servicestellen>

Please note that there are different points of contact for repairs and support!

