

TIN ROOF MOUNT N4 C2 61 m/s

SBS1

SUITS: UP TO 85 cm SATELLITE DISHES | 4G/5G YAGI's | WNTD's [ANTENNAS]

Site Selection, Inspection and Safety

This mount relies on the strength of the purlin-rafter (batten-rafter) joint to transfer wind loads to the building structure. An internal roof-space inspection must be carried out to ensure the joints are structurally sound. In the event of any doubt as to the strength of the joints, or in locations with high wind loadings, for example Wind Classification N4/C2 (61 m/s), the structure must be checked and reinforced.

The section of the roof selected for placement of the Antenna must also be thoroughly inspected and confirmed to be structurally sound and in good condition. The customer must be consulted to approve the location selected and be advised of the manufacturer's recommendations with respect to maintenance of the roof to ensure longevity of service life. In particular, the roof must be regularly cleaned to remove all industrial dirt, salt deposits and other debris.

Installers must be "Australian Government endorsed" for Commercial Antenna installations and be aware of the danger of live electrical cables above and beneath the roof and building cladding. An approved earth leakage protection safety device must be used at all times when drilling into the roof structure.

Mounting Details

This mount is designed to be fixed to sheet metal clad roofs with a rib height of 16mm and spacing of 76mm (corrugated iron) or a rib height of up to 30mm and spacing of 190mm (square fluted). All roof penetrations are to be through the crests of the cladding and never in the valley. Wherever possible, make new penetrations to fix the clevis base bracket and the staybars to the batten.

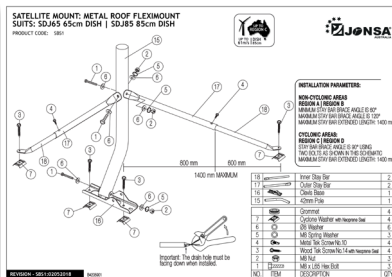
Wind Loads

This Mount has been designed to accommodate satellite dishes up to 85cm (SDJ85). This mount complies with Australian Standards: AS1170.2-2011 & AS4055-2012. An 85cm satellite dish has a larger surface area, hence 4G/5G &/or WNTD's antennas also comply.

Check Contents

Unpack all of the items from the sealed poly bag and ensure that all of the parts supplied are checked against the materials list that has been included, as per the schematic diagram supplied in with the tin roof mount.

Example below:



Placement

The placement of the tin roof mount is dependant on the roof structure. Check the roof and determine whether you can install on the down or up angle as shown in FIG 1.

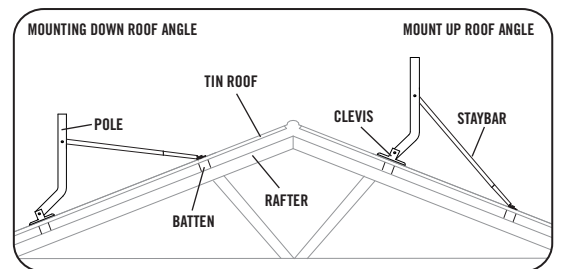


FIG 1.

Staybar Arrangement

The arrangement of the staybars is critical. Refer to the angle parameters shown in FIG 2 and in FIG 3.

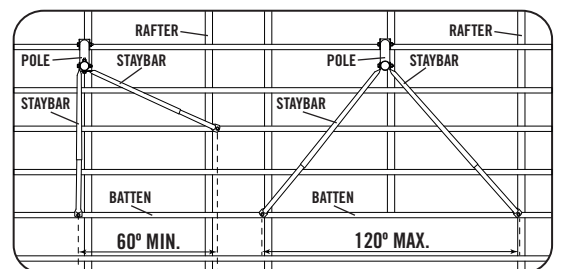


FIG 2.

FIG 3.

NOTE: For High Wind Areas - REGION C

The arrangement of the staybars must be at 90° for optimum strength.

Installation - Step 1 Cables

Drill a \varnothing 10mm hole through the roof sheeting next to the batten to which the clevis base bracket mount will be secured. The number of holes will be determined by the number of cables to be attached to the LNBF.

Moisten and insert the grommets (supplied) through the hole and feed the end of the coaxial cable through it. Push sufficient cable through each grommet to connect to the LNB. Run the cable through the building to the wall or skirting outlets as required.

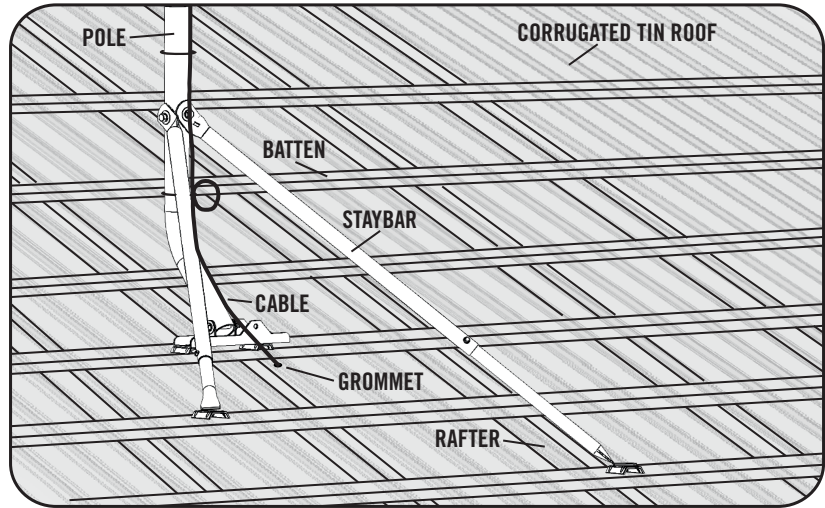
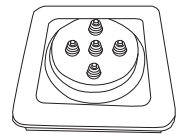


FIG 4.

NOTE: Multiple Cables Installation

Installation of a Quad LNBF &/or with an FTA Antenna, it is recommended to use a flashing rubber dektite kit to install multiple cables.



Installation - Step 2 Securing the Clevis Base Bracket

Secure the clevis base bracket to the batten next to the cable grommets.

Use the clevis base bracket as a template to mark the holes in the crest of the cladding for drilling. Apply a liberal amount of silicone sealant to the screw holes before securing the clevis base bracket.

The cyclone washers (Part #7) are recommended to be used for corrugated type roofs which will add another point of protection against water ingress, with the neoprene seal.

(Again, apply a liberal amount of silicon sealant to the screw holes before securing the clevis base bracket).

Insert Tek screws (Part #3) and tighten. Note: The Tek screws should only be tightened until the clevis bracket is secured firmly against the crest of the roof cladding. Over-tightening may cause distortion of the roof cladding, the rule also applies for flat sheet metal roofing.

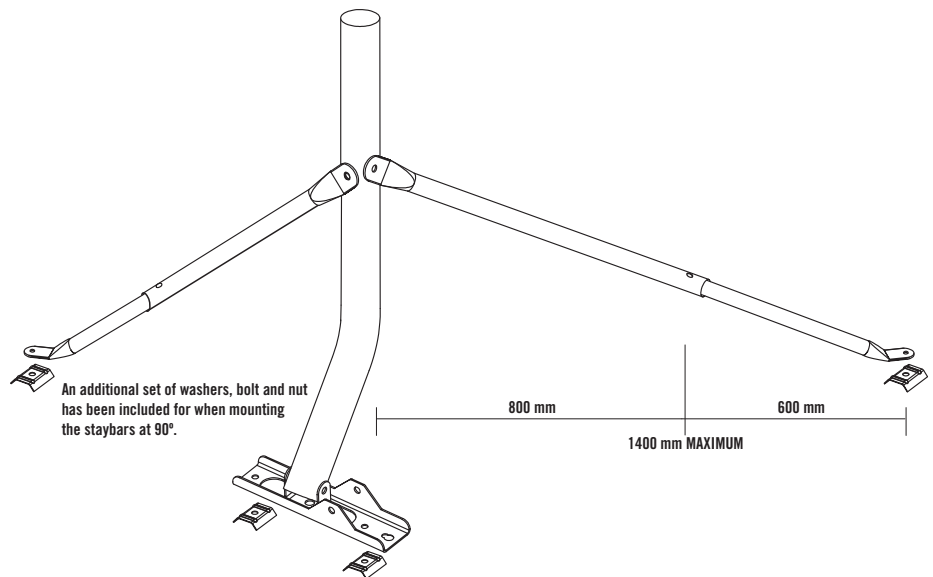


FIG 5.

FIG 5. IMPORTANT NOTICE: The use of Silicone Sealant - AMASC

Further to the instruction in Step 2. Place a liberal amount of silicone sealant under the staybar ends (and the clevis base bracket). It's this liberal amount of silicone corkscrewing in with the tek screw that seals it from water ingress, and not the amount applied to the top of the tek screw.

Silicone sealant must be used for all mating surfaces when using the cyclone washer (Part #7) shown above in FIG 5. and also the Tek Screws (Part #3). For flat surfaces, the cyclone washer (Part #7) can be removed and again, a liberal amount of silicone sealant must be used for these mating surfaces.



Installation - Step 3 Assemble the Pole

Secure the Pole (Part #15) to the clevis base bracket. Secure using 65mm Hex Bolt (Part #1) and one M8 washer (Part #6) on the bolt head side and one M8 washer (Part #6) with one M8 spring washer (Part #5) and M8 Nut (Part #2) on the other side as shown in FIG 6.

Installation - Step 4 Attach the Staybars

Insert the smaller diameter tube into the larger diameter tube, then secure the flattened end of the outer tube to the mast pole using 65mm Hex Bolt (Part #1) and one M8 washer (Part #6) on bolt head side and one M8 washer (Part #6) with one M8 spring washer (Part #5) and M8 Nut (Part #2) on the other side.

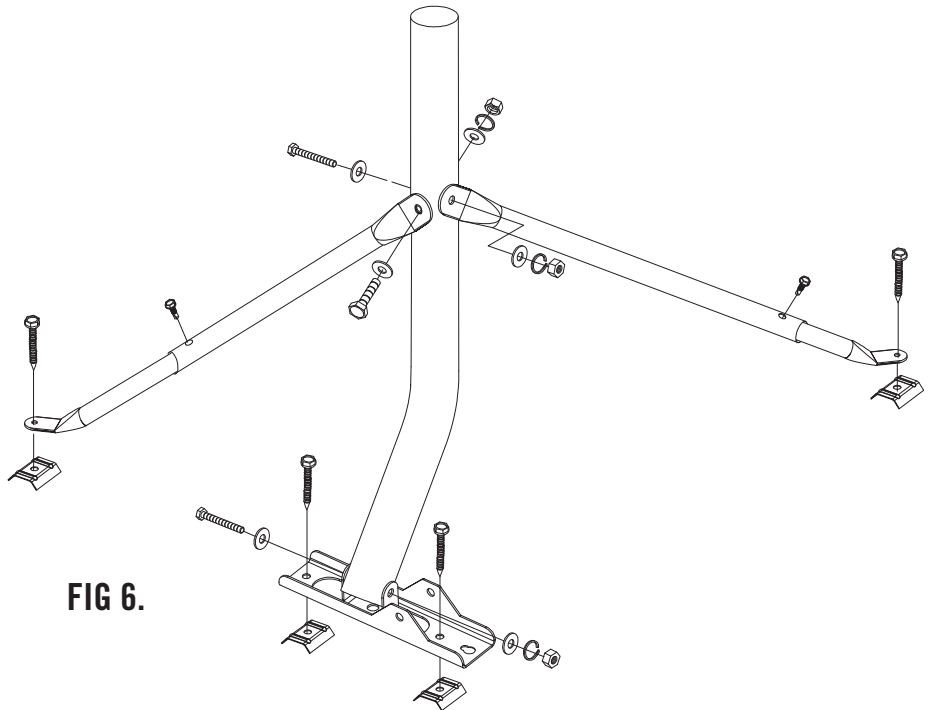


FIG 6.

Installation - Step 5

The flat ends on the staybars can be angled into position by simply bending the flat ends with a spanner as shown in FIG 7. Always ensure the drain holes are facing down when installed. (Maximum bending of the flattened end is no more than 25°)

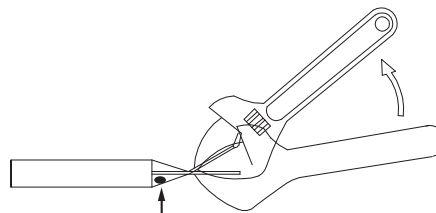


FIG 7.

Important: The drain hole must be facing down when installed.

Installation - Step 6 Check Level and Lock into Position

Confirm the satellite dish mounting pole is sitting level, then drill a pilot hole in each staybar approximately 50mm from the end of the outer tube and secure using 10g x 20mm Tek screws (Part #4). Repeat the same procedure of drilling a second pilot hole in the staybar approximately 200mm from the end of the outer tube using Tek screws (Part #4).

Check that all fasteners are secure and that silicone sealant is visible under the cyclone washers attached to the clevis base bracket and both staybars. This mount is now ready to mount the Antenna.

Assembling the Antenna

Mount the Antenna as per the manufacturers instructions.

Example of our 85 cm Dish:

SATELLITE DISH - 85 CM
SUITS: SBS1 METAL ROOF FLEXIMOUNT | SBS2 TILE ROOF MOUNT
SBS19 METAL ROOF FLEXIMOUNT | SBS19 TILE ROOF MOUNT
PRODUCT CODE: SB8501

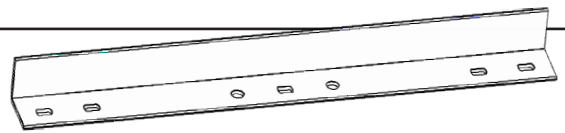
Thread	Max Tightening torques
M8	5.8Nm / 90kgf.cm
M8	21.4Nm / 220kgf.cm

remark: Nm=10.197kgf.cm

26	40mm LNEB Clamp	1
25	40mm LNEB Clamp Holder	1
24	LNEB Arm	1
23	B/Mast Bracket	2
22	I/Mast Bracket	1
21	Reflector Bracket	1
20	Reflector	1
10	Washer	2
9	exc. cover	1
8	M8 flange nut	12
7	M8*M8 I Square bolt	2
6	M8 Washer	2
5	M8 hex nut	2
4	MPS30 Round-head cross screw	2
3	MPS20 round-head screw	8
2	MPS18 round-head up 4/16 screw	1
1	MPS30 hex-cross-head 4/8 screw	2

NO.1 ITEM DESCRIPTION QTY

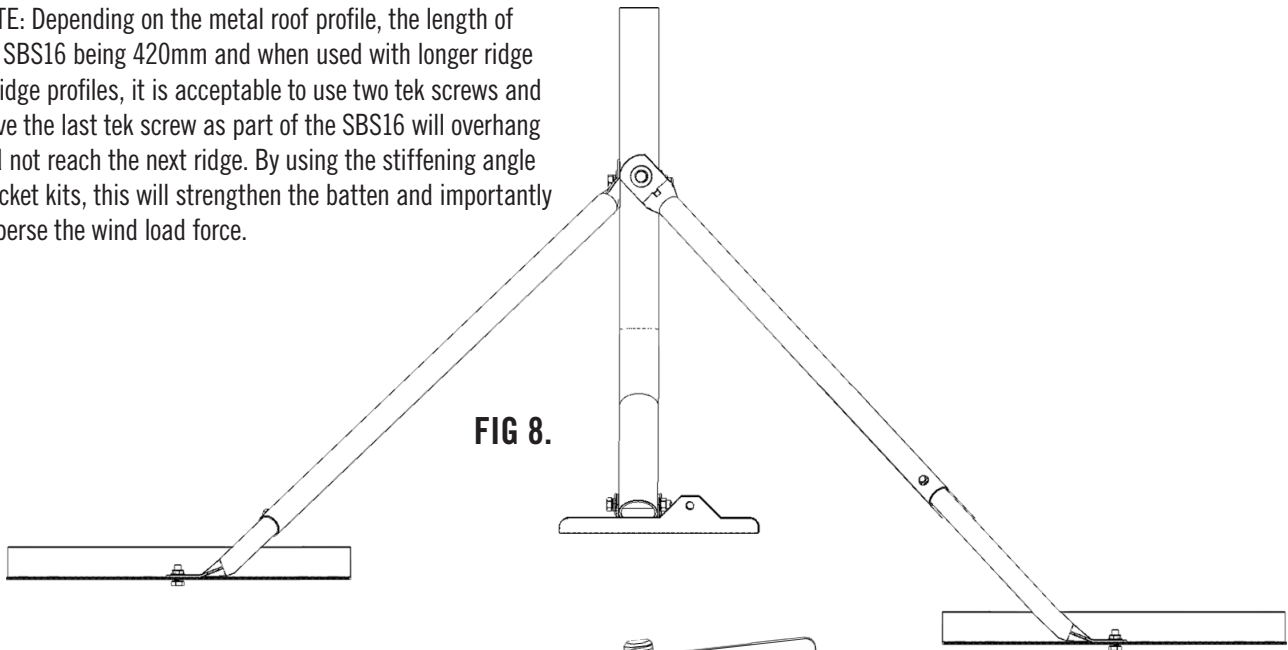
Installation with SBS16 Metal Batten Roof Kit (Stiffening Angles) Available



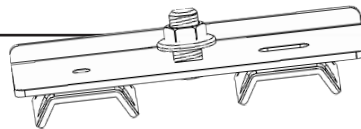
APPLICATION: Suits metal roof mounts with metal battens used to strengthen and stiffen metal battens. The stiffening angles can also be used to strengthen and stiffen wooden battens (wood tek screws must be used when fixing to wooden battens).

Position the two staybar stiffening angles on the roof so that the staybars when attached will be angled at no more than 45° to the mast pole. Attach the two staybars to the stiffening angles (as per FIG 8. below) in same manner as securing the pole to the clevis base bracket ensuring a liberal amount of silicone sealant (Refer to FIG 5. Notice on Silicone) is applied to the holes before securing the bracket. The Tek screws (Part #3) should only be tightened until the stiffening angles are firmly against the crest of the roof cladding. Over-tightening may cause distortion, the rule applies for flat sheet metal roofing.

NOTE: Depending on the metal roof profile, the length of the SBS16 being 420mm and when used with longer ridge to ridge profiles, it is acceptable to use two tek screws and leave the last tek screw as part of the SBS16 will overhang and not reach the next ridge. By using the stiffening angle bracket kits, this will strengthen the batten and importantly disperse the wind load force.

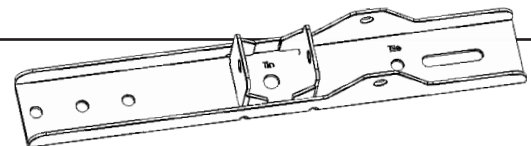


Installation with SBS16A Duo Cleat Bracket Available



The duo cleat brackets are used as added strength and support for corrugated roof structures with metal or wooden battens. The duo cleat bracket set is supplied with two cyclone washers, so the two cyclone washers that are used for the staybars which are supplied with the SBS1, make up the set of four required for this installation.

Installation with SBS22 Longer Alternative Clevis Base Bracket Available



This clevis base bracket is available for use in situations where the Metal Clad Tin Roof Mount is used on deep rib type deck roofs where the width of the pans of the roof deck are often too narrow to permit the use of the standard clevis base bracket.

Warranty

Any claim under this warranty must be made within 12 months of the date of purchase of the product. To make a claim under the warranty, take the product (with proof of purchase) to the store where you purchased the product or contact Jonsa Australia Pty. Ltd.

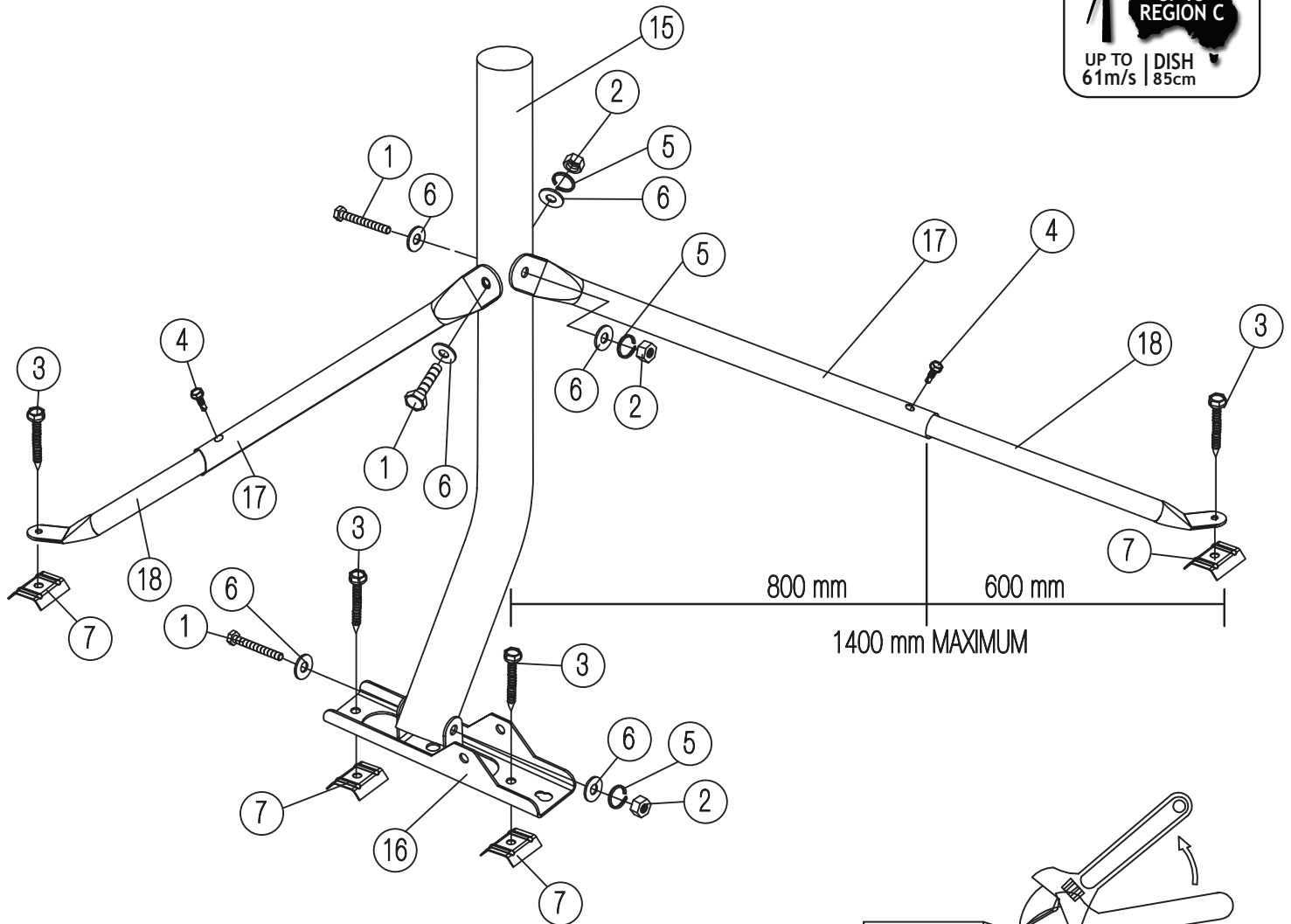
If the product is found to be defective, Jonsa Australia Pty. Ltd. will pay your reasonable, direct expenses of claiming under this warranty. You may submit details and proof of your expense claim to Jonsa Australia Pty. Ltd. for consideration. If the product is found not to be defective, you will be responsible for your expenses of claiming under this warranty.

This warranty is given by Jonsa Australia Pty. Ltd. - ABN 15097501105
Unit D2, Lidcombe Business Park, 3-29 Birnie Avenue, Lidcombe NSW 2141
Tel: 1300 660 155 – Email: sales@jonsa.com.au

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

SATELLITE MOUNT: METAL ROOF FLEXIMOUNT SUITS: SDJ65 65cm DISH | SDJ85 85cm DISH

PRODUCT CODE: SBS1



INSTALLATION PARAMETERS:

NON-CYCLONIC AREAS

REGION A | REGION B

MINIMUM STAY BAR BRACE ANGLE IS 60°

MAXIMUM STAY BAR BRACE ANGLE IS 120°

MAXIMUM STAY BAR EXTENDED LENGTH: 1400 mm

CYCLONIC AREAS:

REGION C | REGION D

STAY BAR BRACE ANGLE IS 90° USING

TWO BOLTS AS SHOWN IN THIS SCHEMATIC

MAXIMUM STAY BAR EXTENDED LENGTH: 1400 mm

18		Inner Stay Bar	2
17		Outer Stay Bar	2
16		Clevis Base	1
15		42mm Pole	1

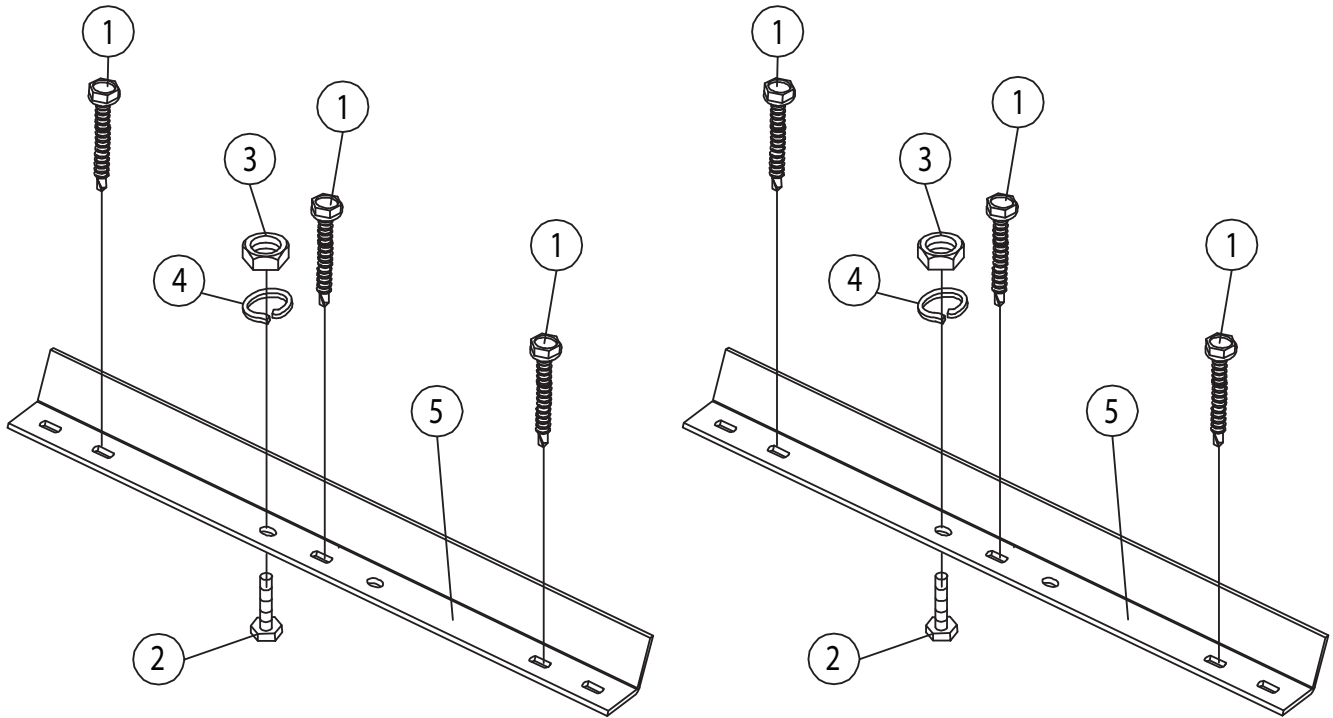
		Grommet	4
7		Cyclone Washer with Neoprene Seal	4
6		Ø8 Washer	6
5		M8 Spring Washer	3
4		Metal Tek Screw No.10	4
3		Wood Tek Screw No.14 with Neoprene Seal	4
2		M8 Nut	3
1		M8 L65 Hex Head Bolt	3
NO.	ITEM	DESCRIPTION	QTY

SATELLITE MOUNT: METAL BATTEN ROOF KIT

PRODUCT CODE: SBS16

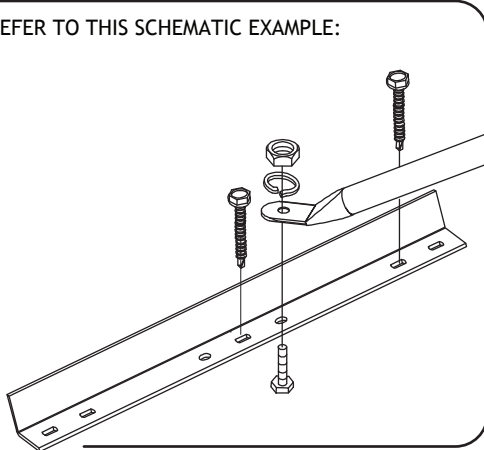
APPLICATION: SUITS METAL ROOF MOUNTS WITH METAL BATTENS
USED TO STRENGTHEN AND STIFFEN METAL BATTENS

CAN ALSO BE USED TO STRENGTHEN AND STIFFEN WOODEN BATTENS
(WOOD TEK SCREWS MUST BE USED WHEN FIXING TO WOODEN BATTENS, NOT INCLUDED)

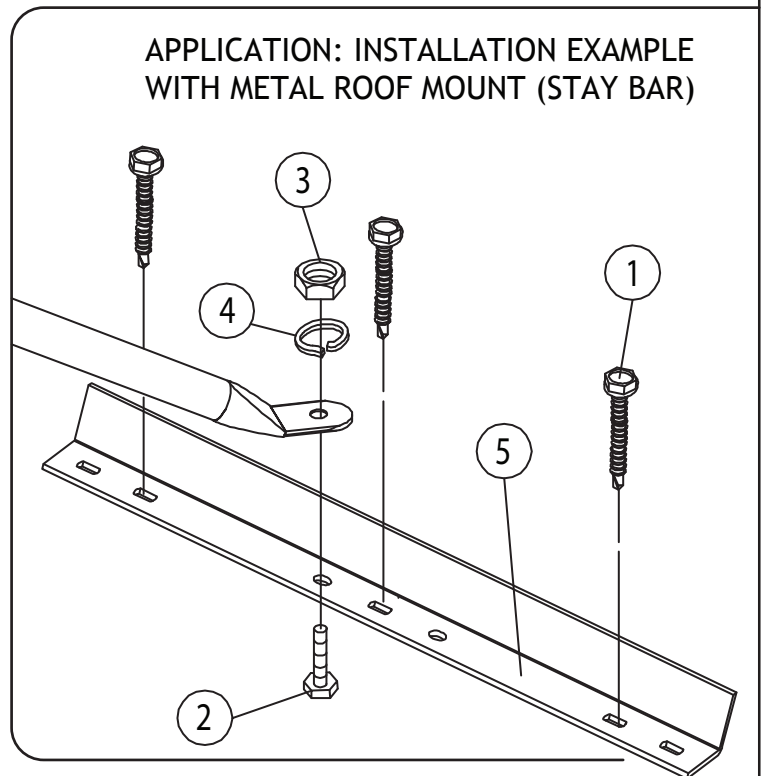


NOTE: DEPENDING ON THE METAL ROOF PROFILE, THE LENGTH OF THE SBS16 BEING 420 mm WILL BE INSTALLED AS PER THE DIAGRAM ABOVE. WITH LONGER RIDGE TO RIDGE PROFILES, IT IS ACCEPTABLE TO USE TWO TEK SCREWS AND LEAVE THE LAST TEK SCREW AS PART OF THE SBS16 WILL OVERHANG AND NOT REACH THE NEXT RIDGE.

REFER TO THIS SCHEMATIC EXAMPLE:



BY USING THE STIFFENING ANGLE BRACKET KITS, WILL STRENGTHEN THE BATTEN AND IMPORTANTLY DISPERSE THE WIND LOAD FORCE.



5		Angle Metal Batten [420 x 40 x 40 mm]	2
4		M8 Spring Washer	2
3		M8 Flange Nut	2
2		M8 x L20 Hex Head Bolt	2
1		Metal Tek Screw No.10 x L55	8
NO.	ITEM	DESCRIPTION	QTY

SATELLITE MOUNT: METAL ROOF DUO CLEAT KIT

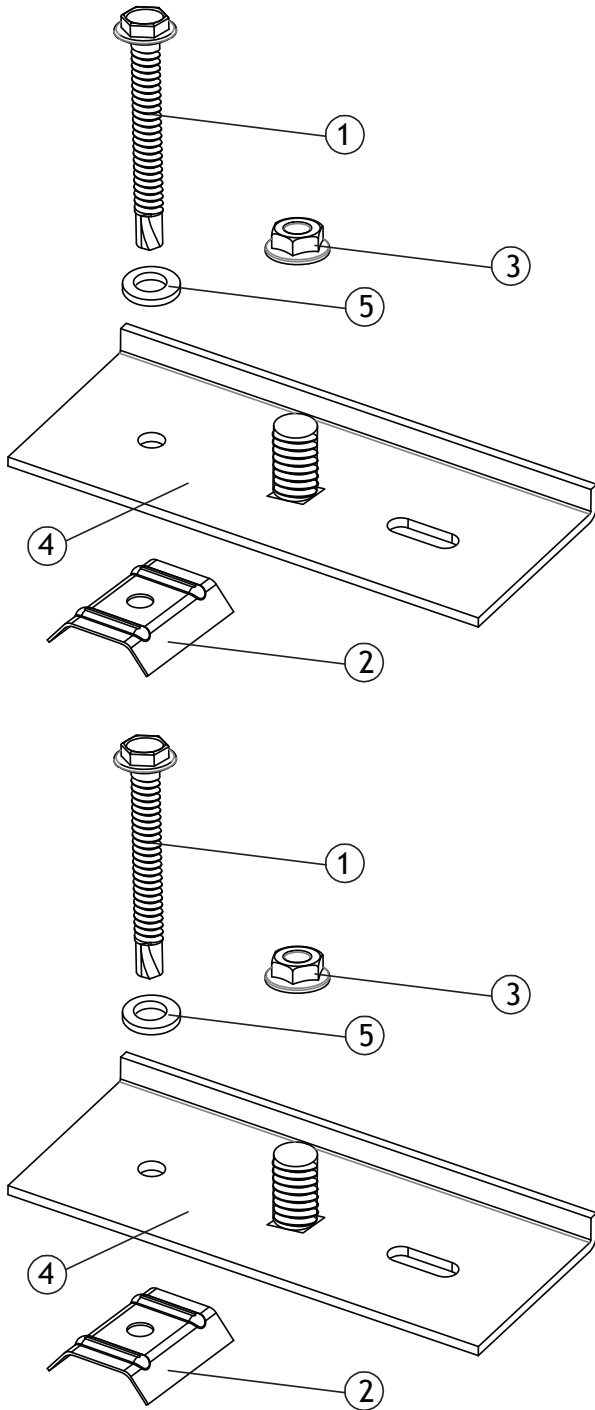
PRODUCT CODE: SBS16A



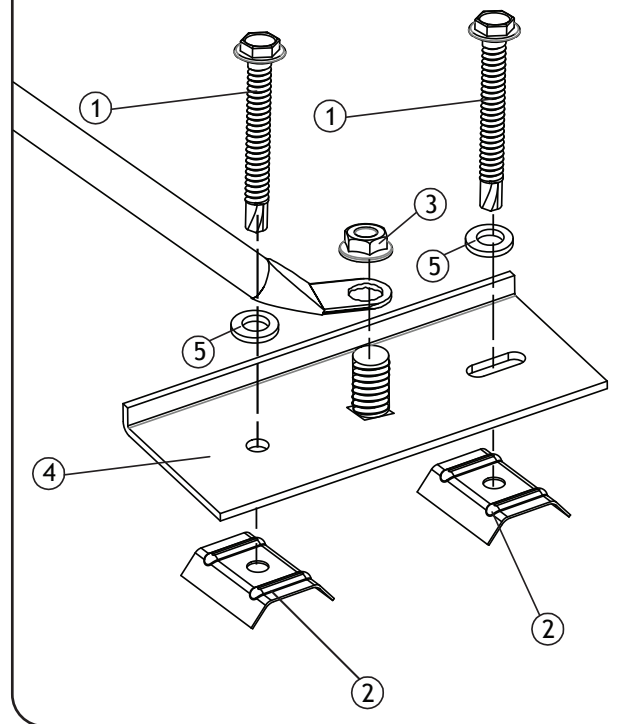
APPLICATION: SUITS THE SBS1 METAL ROOF FLEXIMOUNT

CAN ALSO BE USED TO STRENGTHEN AND STIFFEN WOODEN BATTENS

(WOOD TEK SCREWS MUST BE USED WHEN FIXING TO WOODEN BATTENS, NOT INCLUDED)



APPLICATION: INSTALLATION EXAMPLE WITH SBS1 METAL ROOF MOUNT (STAY BAR)



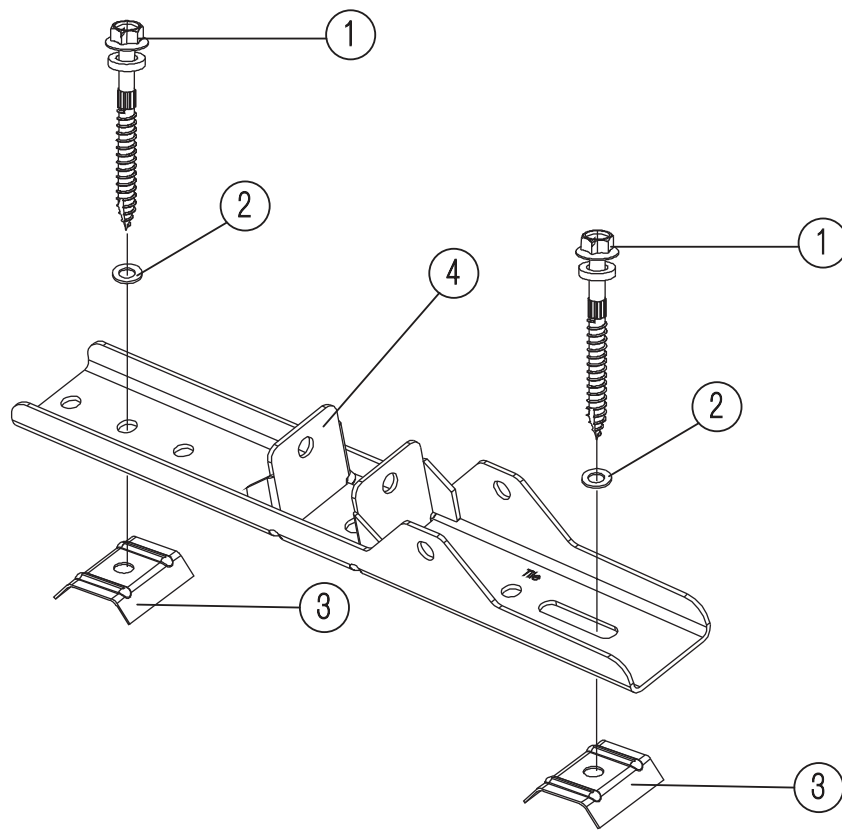
**IMPORTANT: THE JONSA, SBS1 METAL ROOF MOUNT ALREADY INCLUDES:
PART #2 x 2 PIECES (CYCLONE NEOPRENE WASHER)
PART #1 x 2 PIECES (1/4" x L75 WOOD TEK SCREW)
USE THESE ACCESSORIES IN CONJUNCTION WITH THE ACCESSORIES SUPPLIED IN THIS KIT.**





5		Washer	2
4		Duo Cleat	2
3		M10 Flange Nut	2
2		Cyclone Washer with Neoprene Seal	2
1		Metal Tek Screw No.10 x L75	2
NO.	ITEM	DESCRIPTION	QTY

SATELLITE MOUNT: CLEVIS BASE BRACKET

SUITS: TIN MOUNT (SBS1, SBS18)

PRODUCT CODE: SBS22



4		Clevis Base	1
3		Cyclone Washer with Neoprene Seal	3
2		Ø8 Washer	3
1		#14-10 x L65 Wood Tek Screw	3
NO.	ITEM	DESCRIPTION	QTY