Ultraroof
By Ultraframe

# METROTILE ON OSB INSTALLATION GUIDE

LEAN TO
**SOLID** ROOF | **METROTILE CAPS**

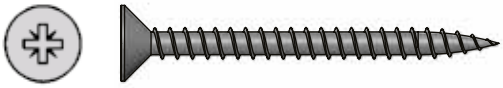
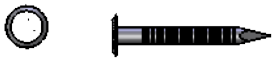
V7 | March 2026

**9a.**

# FIXING SUMMARY

**PLEASE USE THE SUPPLIED FIXINGS WHEN INSTALLING THE ULTRAROOF TO ENSURE A SECURE AND CORRECT INSTALLATION.**

**FIXINGS SUPPLIED** Below shows the various fixings supplied for an installation of an Ultraroof.

| | | |
|---|---|---|
| **NRPS050**<br>4.0 x 25 Deck-tite pozi CSNK screw |  | **POZI SCREWDRIVER BIT PZ-2** |
| **NRTS050**<br>4.2 x 25 wafer head Self drilling screws |  | **PHILLIPS SCREWDRIVER BIT PH-2** |
| **RRX025**<br>5.0 x 50 CSNK pozi heco fix wood screw |  | **POZI SCREWDRIVER BIT PZ-2** |
| **GPHS050**<br>4.2 x 38 wafer head CSNK self drill |  | **SQUARE SCREWDRIVER BIT R-2** |
| **FSW-55-70**<br>5.5 x 70 TX head winged CSNK self drill |  | **TORQUE WRENCH T-25** |
| **MTSN010**<br>25mm Shingle nails |  | **HAMMER** |
| **RRR025**<br>5.5 x 32 hex head drill screw |  | **M8 HEX SCREWDRIVER BIT H** |

# FIXING LOCATION SUMMARY

**Fixing gable frame stiffeners**

6 fixings per bracket

**RRX025**
5.0 x 50 C'SNK pozi heco fix wood screw

**Fixing beam to corner**

6 fixings per corner

**RRX025**
5.0 x 50 C'SNK pozi heco fix wood screw

**Fixing through head of window frame into beam**

200mm from corner, 450mm CTRS

**FIXINGS NOT SUPPLIED**

**Fixing gable support**

**RRR025**
5.5 x 32 wafer head drill screw

# FIXING LOCATION SUMMARY

### Fixing support props to beam

2 fixings per prop

**FIXINGS NOT SUPPLIED**

Fix a prop into the steel section of the beam as shown above. Props should be at max 2000mm centres within 250mm from each corner (prop fixings NOT SUPPLIED) 75x50mm (timber props NOT SUPPLIED).

### Fixing set out staff

2 per cleat

**GPHS050**
4.2 x 38 wafer head countersunk self drill

With set out staff flush with underside of beam, fix to face of beam using 2 x **GPHS050**) provided. Staff set-out cleat fixed to internal face of box beam. Once fixed the staffs will ensure beams remain parallel to each other.

### Fixing wall brackets to the beam

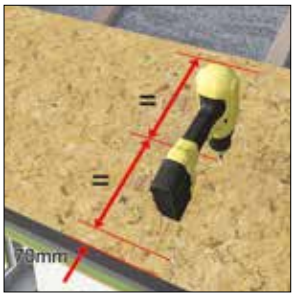
6 fixings per bracket

**RRX025**
5.0 x 50 C'SNK pozi heco fix wood screw

### Fixing vent strip to beam

3 fixings per strip

**NRTS050**
4.2 x 25 wafer head self drilling screws



### Fixing OSB to external panel clips

24 fixings per full panel

**GPHS050**
4.2 x 38 wafer head countersunk self drill

### Fixing tile starter to OSB

4 fixings per strip

**NRPS050**
4.0 x 25 Deck - tite pozi CSNK screw

### Fixing external clips

10 fixings per full clip

5 fixing per half clip

**GPHS050**
4.2 x 38 wafer head countersunk self drill

### Fixing internal clips

4 fixings per full clip

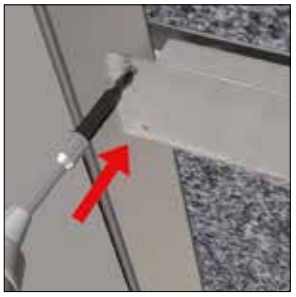
2 fixing per half clip

**GPHS050**
4.2 x 38 wafer head countersunk self drill

### Fixing internal clip to box beam shelf

2 fixings per full clip

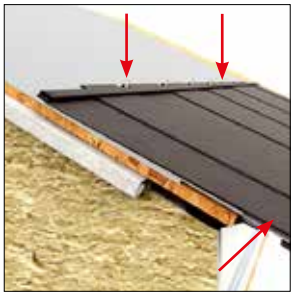
**GPHS050**
4.2 x 38 wafer head countersunk self drill



### Fixing internal clip to ridge shelf

2 fixings per full clip

**GPHS050**
4.2 x 38 wafer head countersunk self drill



### Fixing Metrotile panel

4 per full tile

**NRPS050**
4.0 x 25 Deck - tite pozi CSNK screw

# FIXING LOCATION SUMMARY - HIP ONLY


## Fixing hanger bracket to wall

4 fixings per bracket

**FIXINGS NOT SUPPLIED**

We recommend HILTI chemical anchors where specified and expanding anchors in other locations (to resist pull out forces). Using HILTI product codes/descriptions, use a HIT-V 80mm x M8 threaded anchor (stud*) fastened into a 10mm clean drill hole with gun injected mortar or adhesive capsules (with a minimum 80mm embedded) - always rigorously follow manufacturers guidance www.hilti.com

In addition we recommend the following alternatives;
Fischer M8/M10 masonry injection anchor FIS V Rawl Fixings M8/M10 CFS RM50 or CFS RP30

* Design load for each stud 2.5k

## External box beam corner cleats

**12 per cleat**, 6 through pre drilled holes, 6 through gutter support channel

**NRTS050**
4.2 x 25 wafer head self drilling screws

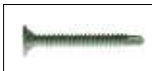
## Fixing beam support shelf to existing frames

6 fixings per corner

**GPHS050**
4.2 x 38 wafer head countersunk self drill

## Fixing internal upper hip brace plate

4 fixings per plate



**GPHS050**
4.2 x 38 wafer head countersunk self drill

## Fixing internal jack rafter connection plate

4 fixings per plate

**GPHS050**
4.2 x 38 wafer head countersunk self drill

## Internal 90° box beam cleat

**18 fixing per cleat**

**NRTS050**
4.2 x 25 wafer head self drilling screws

## External box beam cleat top

**12 fixing per cleat**

**NRTS050**
4.2 x 25 wafer head self drilling screws

## Hip to beam fixing

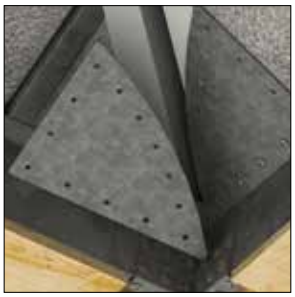
**4 fixing per hip**

**GPHS050**
4.2 x 38 wafer head countersunk self drill

## Fixing internal lower hip brace plate

4 fixings per plate

**GPHS050**
4.2 x 38 wafer head countersunk self drill



## Fixing internal hip retaining plates

9 fixings per plate

**GPHS050**
4.2 x 38 wafer head countersunk self drill

## Fixing steel hip plates

300mm centres (pre drilled holes)

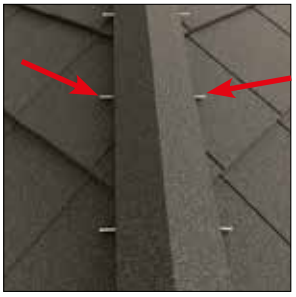
**NRTS050**
4.2 x 25 wafer head self drilling screws

# FIXING LOCATION SUMMARY - HIP ONLY

**Fixing hip battens and battens on metrotile**

**500mm ctrs per side**

**FSW-55-70**
5.5 x 70 TX head
winged CSNK self drill



**Fixing metrotile hip and ridge on to battens**

**500mm ctrs per hip cap**

**MTSN010**
25 mm shingle nails

**Fixing metrotile hip end cap on to battens**

**1 x per side per end cap**

**MTSN010**
25 mm shingle nails

# BEAM BRACKETRY

ULTRAROOF EAVES BEAM HAS BEEN UPDATED TO INCLUDE ADDITIONAL BRACKETS ON THE INTERNAL CORNERS TO SUPPORT THE MITRED JOINT. IF RECEIVED WITH YOUR ORDER FIT AS SHOWN BELOW.

## 15° TO 19° ROOF PITCH

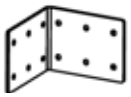
**WPBBF090**
INTERNAL CLEAT
STRAP
1 PER MITRE

**WPBCS135**
INTERNAL CLEAT
SMALL
1 PER MITRE

**WPBCS150**
INTERNAL CLEAT
SMALL
1 PER MITRE

## 20° TO 29° ROOF PITCH

**WPBBF090**
INTERNAL CLEAT
STRAP
1 PER MITRE



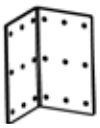
**WPBCM090**
INTERNAL CLEAT
MEDIUM
1 PER MITRE

**WPBCM135**
INTERNAL CLEAT
MEDIUM
1 PER MITRE

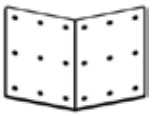
**WPBCM150**
INTERNAL CLEAT
MEDIUM
1 PER MITRE

## 30° TO 40° ROOF PITCH

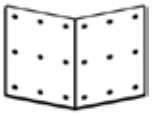
**WPBBF090**
INTERNAL CLEAT
STRAP
1 PER MITRE



**WPBCL090**
INTERNAL CLEAT
LARGE
1 PER MITRE

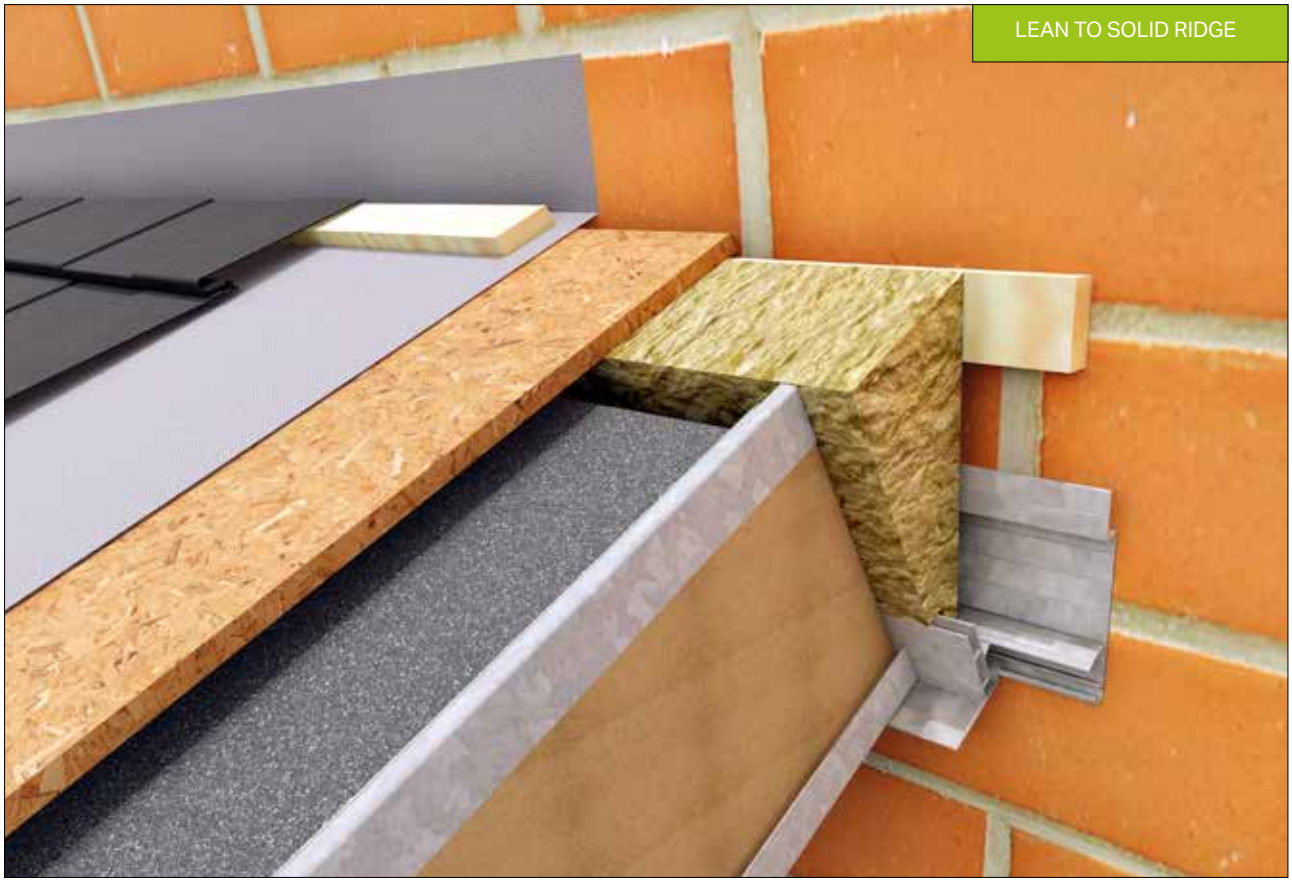


**WPBCL135**
INTERNAL CLEAT
LARGE
1 PER MITRE

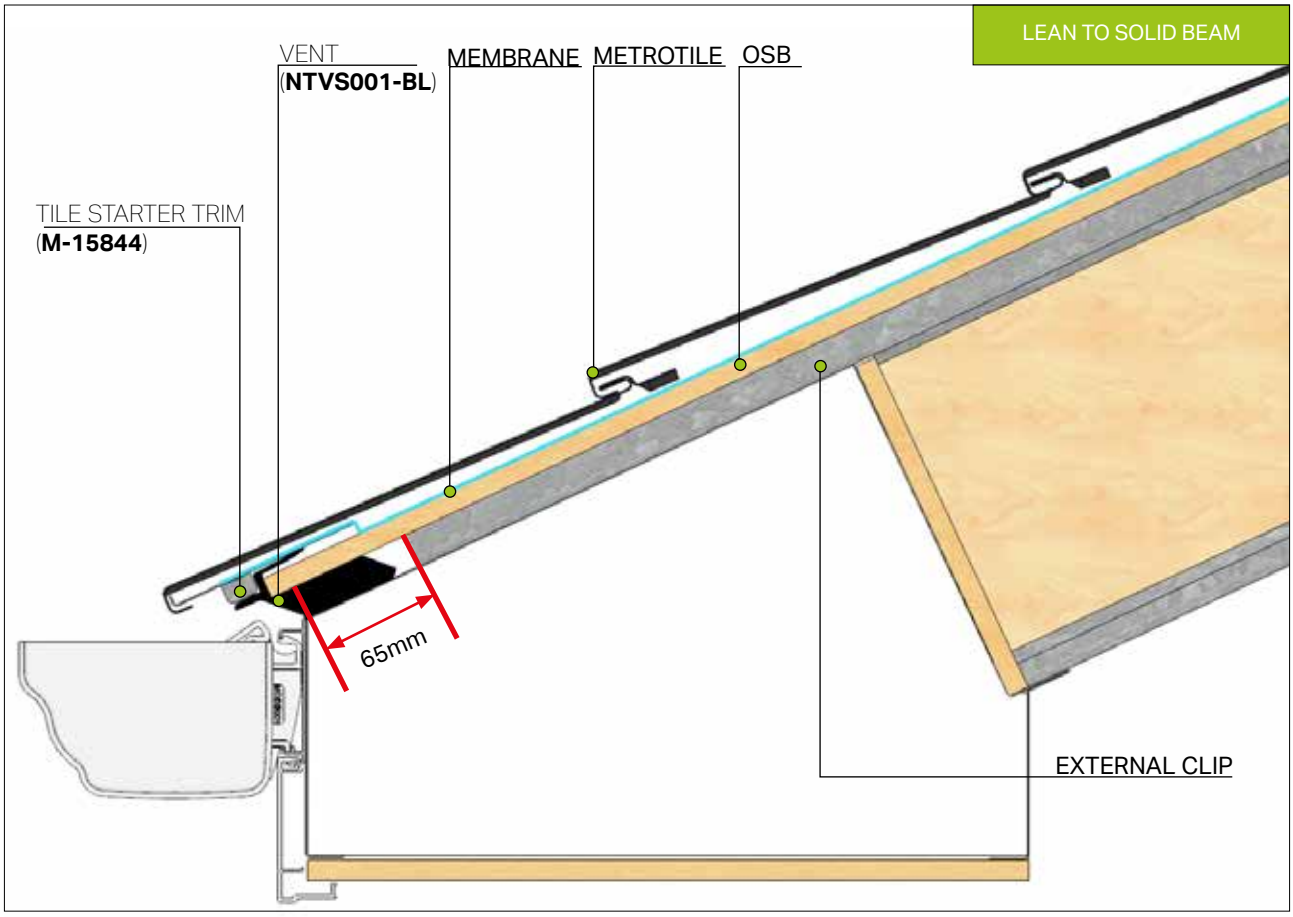


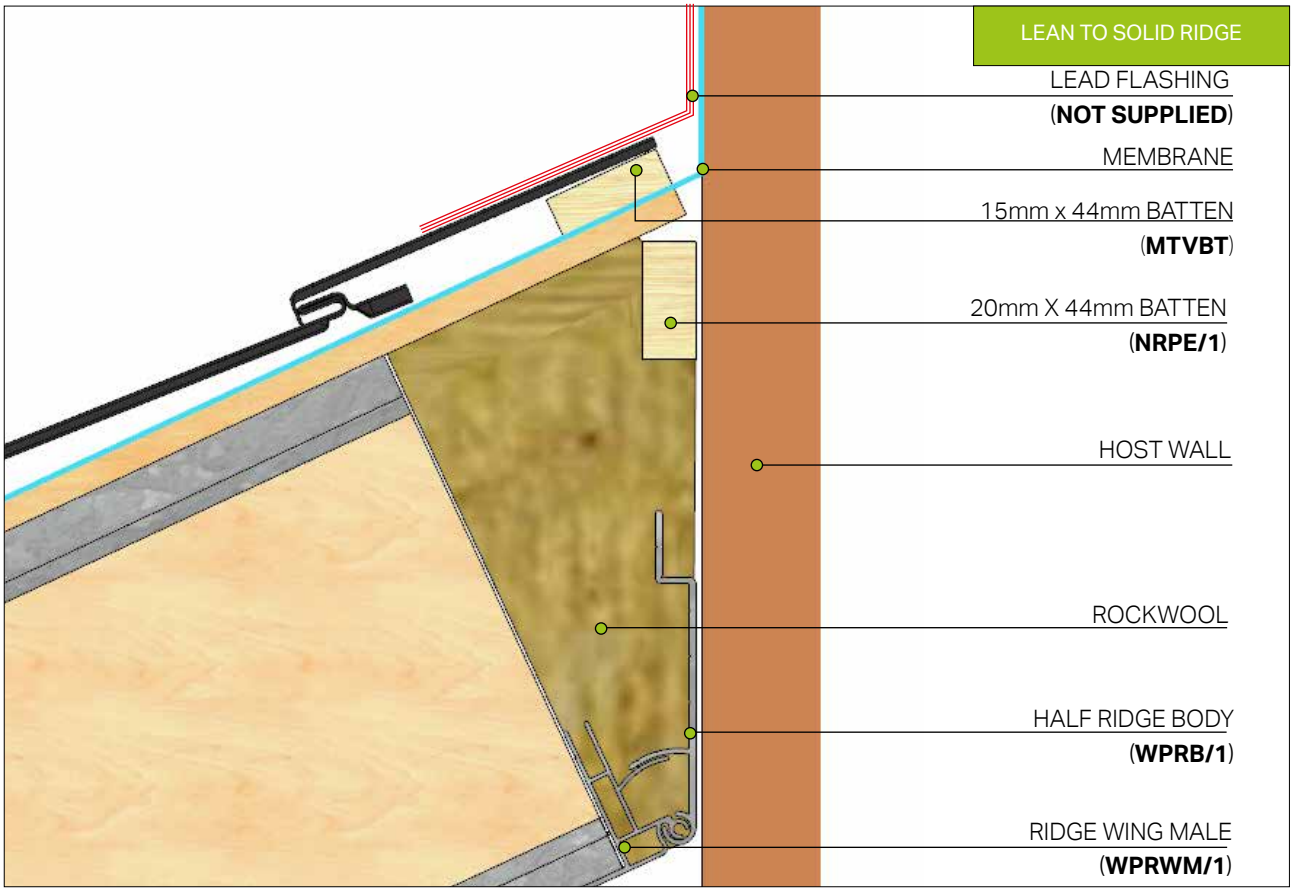
**WPBCL150**
INTERNAL CLEAT
LARGE
1 PER MITRE

# PRODUCT ASSEMBLIES

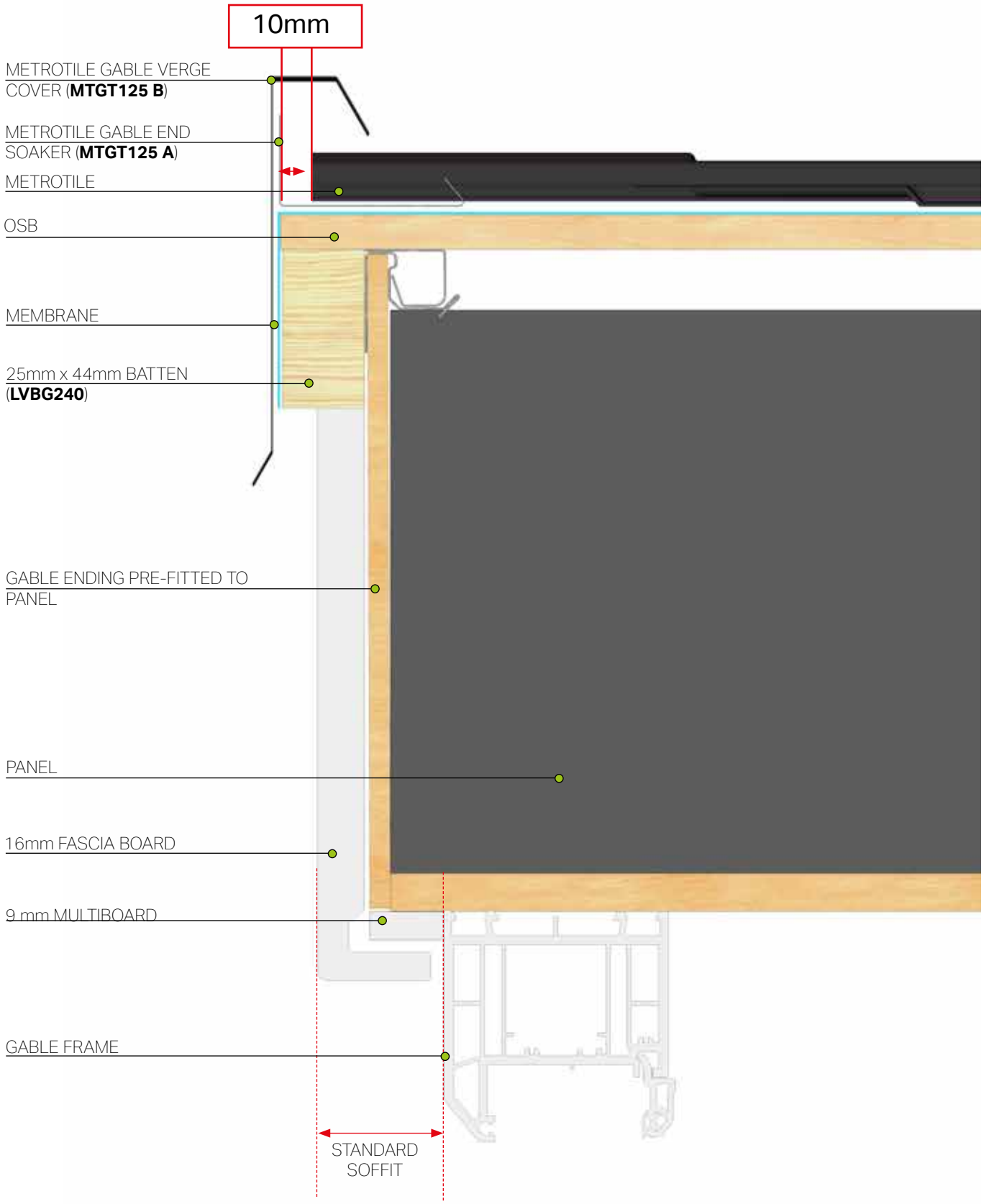
# LEAN TO - SOLID ROOF CROSS SECTION ASSEMBLY



# GABLE END - **SOLID** ROOF CROSS SECTION ASSEMBLY

GABLE END STANDARD SOFFIT

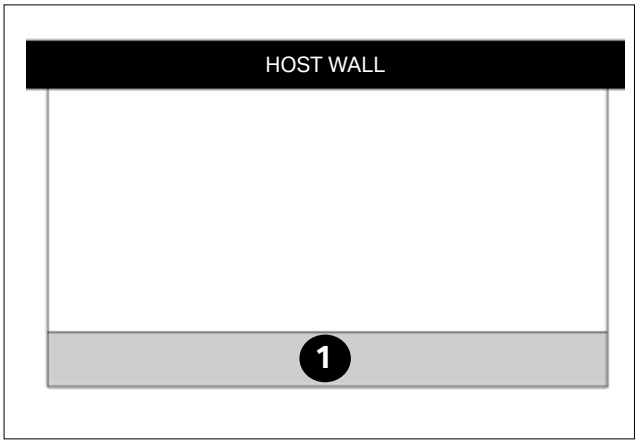


# BOX BEAM INSTALLATION SEQUENCE

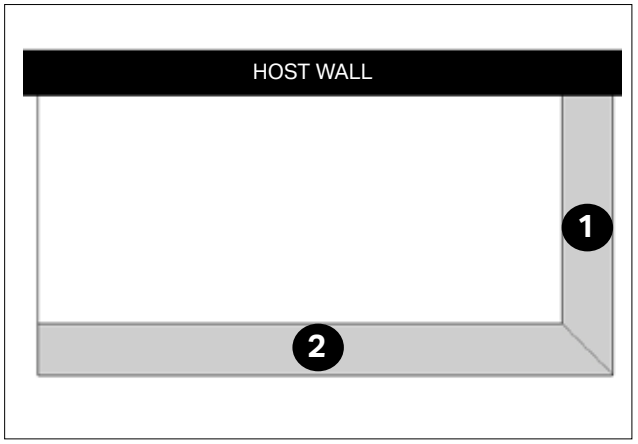
**IMPORTANT: FOLLOW THE FITTING ASSEMBLY SEQUENCE**

**KEY:** BOX BEAM

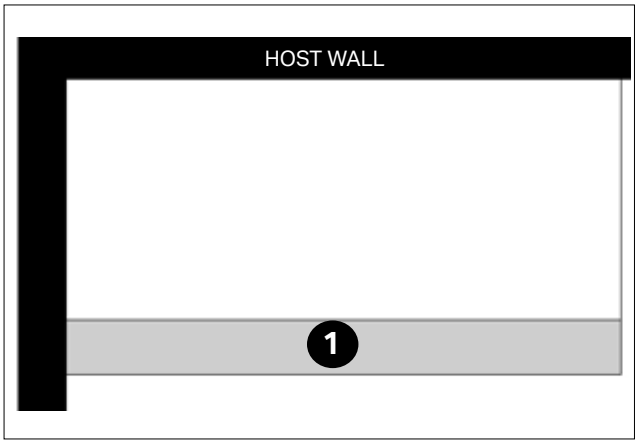
**A. STANDARD LEAN TO**



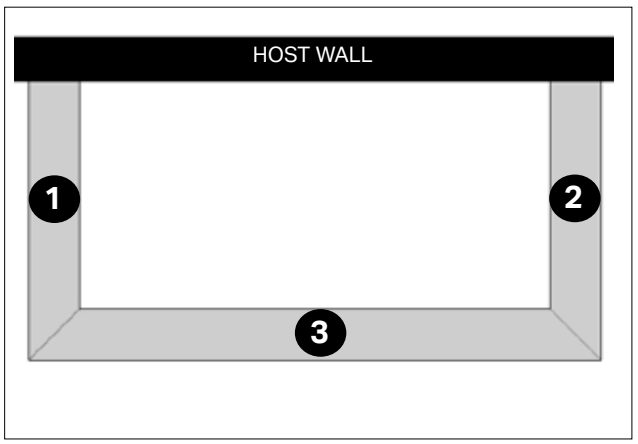

**B. LEAN TO WITH HIP**




**C. CORNER LEAN TO**

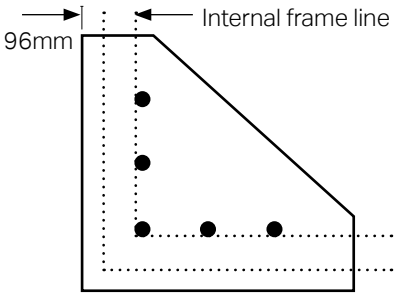



**D. LEAN TO DOUBLE HIP**

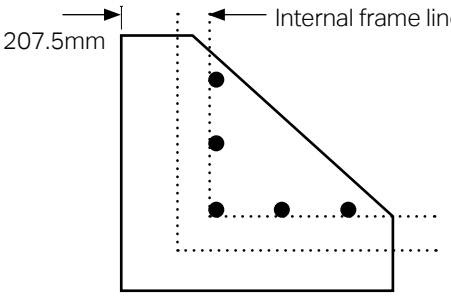



## BOX BEAM SUPPORT SHELF LEAN TO WITH HIP ONLY

**STANDARD SOFFIT**



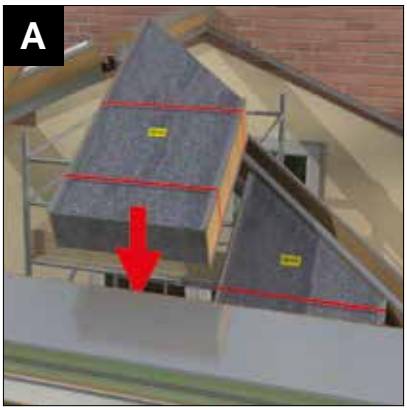

**EXTENDED SOFFIT**

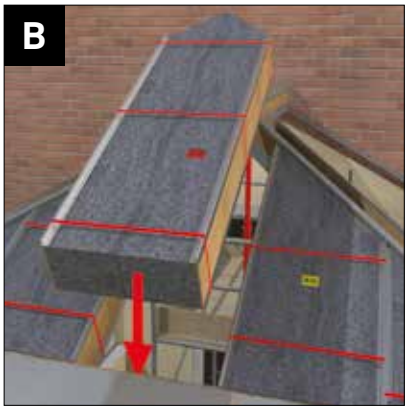



# PANEL INSTALLATION SEQUENCE

**ALWAYS START INSTALLING PANELS WITH YELLOW LABELS FIRST (as shown below image A).**

**IMPORTANT:**
TOLERANCE PANELS (PANELS WITH RED LABEL- as shown below **image B**) ARE TO BE INSTALLED LAST.
TOLERANCE PANELS, WILL EXPAND SIDEWAYS TO TAKE UP ANY REMAINING GAP.



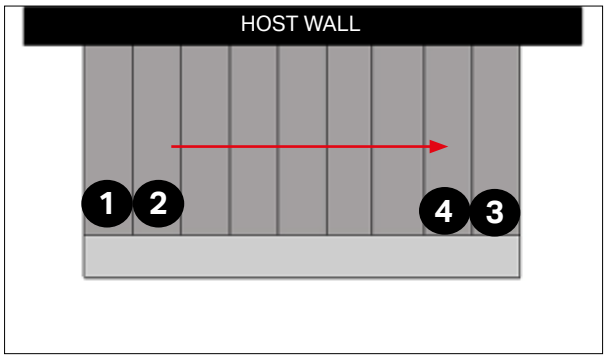




NOTE: ABOVE IMAGES ARE FOR ILLUSTRATION PURPOSES ONLY. DUO PITCHED ROOF SHOWN, SHAPES OF PANELS FOR GABLE END WILL DIFFER.

**IMPORTANT: FOLLOW THE FITTING ASSEMBLY SEQUENCE**

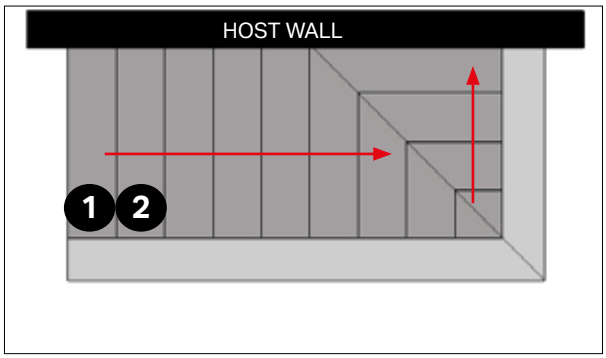
**KEY:** PANELS BOX BEAM

## A. STANDARD LEAN TO



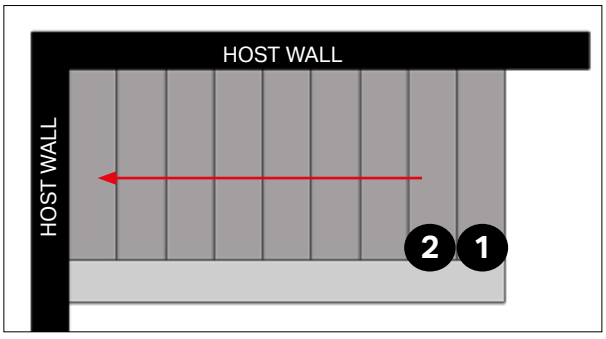

Start from installing first two panels on each gable end (1-2 and 3-4 as shown above), work your way from LEFT to RIGHT with the rest of the panels. Do not forget - tolerance panels are to be installed last.

## B. LEAN TO WITH HIP



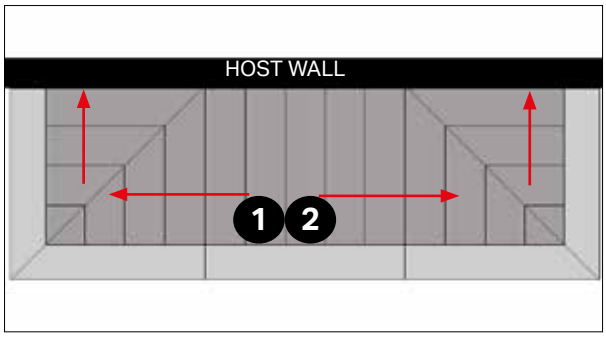

Start from installing first two panels on gable end with no beam return (1-2 as shown above), work your way from LEFT to RIGHT with the rest of the panels. Do not forget - tolerance panels are to be installed last.

## C. CORNER LEAN TO




Install first two panels on gable end opposite to host wall (1-2 as above), work your way in towards the host wall. Do not forget - tolerance panels are to be installed last.

## D. LEAN TO DOUBLE HIP




Install two panels in the middle of extension (1-2 as above), work your way out to the LEFT and to the RIGHT. Do not forget - tolerance panels are to be installed last.

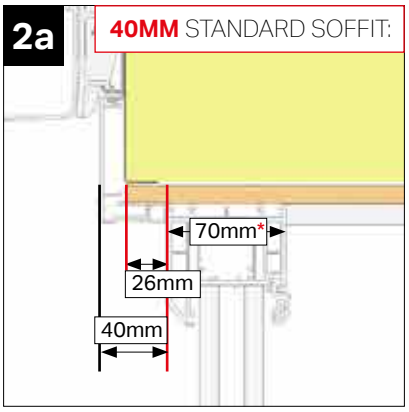
**DO NOT CUT THE BINDING CORDS.**

# INSTALLATION SEQUENCE

**1**

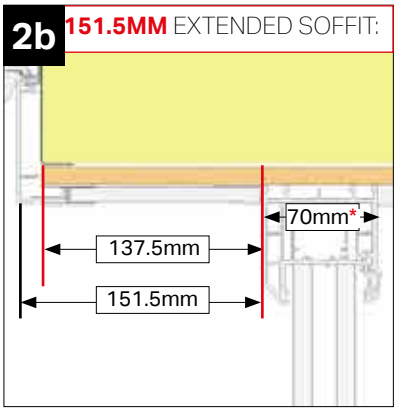
ONLY IF GABLE FRAME STIFFENERS SPECIFIED: Fix the aluminium gable beam fixing plate to the underside of the box beam using 6 x **RRX025** screws (**PROVIDED**). **NOTE: ALIGN PLATE 'V' NOTCH GROOVES WITH EDGE OF BEAM.**

**2a** **40MM** STANDARD SOFFIT:




Lean-to set out projection as shown above (standard soffit). Box beam set 26mm from outer face of 70mm* frame

**2b** **151.5MM** EXTENDED SOFFIT:




Lean-to set out projection as shown above (extended soffit). Box beam set 137.5mm from outer face of 70mm* frame

***NOTE : WINDOW FRAME THICKNESS MAY VARY.**

**3**

Apply low modulus silicone to the head of frames local to beam area before lifting the box beam into position. Temporarily fix the box beam in position.

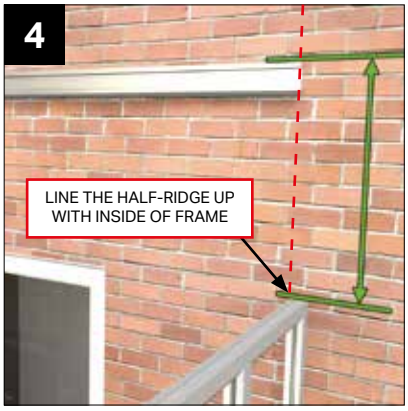
**3a**

Check the beam is level. Pack off top of frames if necessary. Insert a support prop under the beam. Adjust the height of the prop to ensure the beam is level side to side as well as in length.

**3b**

Fix a prop into the steel section of the beam face as shown above. Props should be at max 2000mm centres within 250mm from each corners (prop fixings **NOT SUPPLIED**) 75x50 timbers props (**NOT SUPPLIED**).

**4**




Fix the half-ridge (cut to internal frame) at the height given in the critical dimensions sheet, ensuring the ridge is level. Ensure to line the half-ridge up with inside of frame. Adjust the half ridge height if necessary. **NOTE: DIMENSION IS FROM UNDERSIDE OF BOX BEAM TO TOP EDGE OF HALF RIDGE.**

**5**

**ONLY IF GABLE FRAME STIFFENERS SPECIFIED**: Silicone the head of the frames. Place the aluminium gable frame stiffener with V-groove uppermost.

**6**

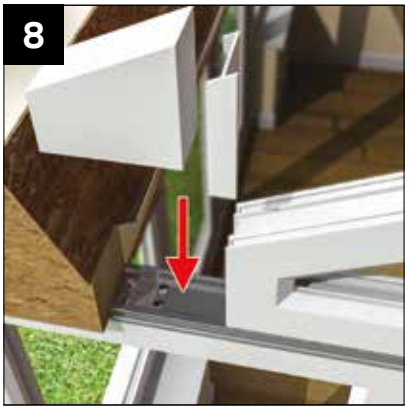

The 4 fixing positions.

# INSTALLATION SEQUENCE

**7**

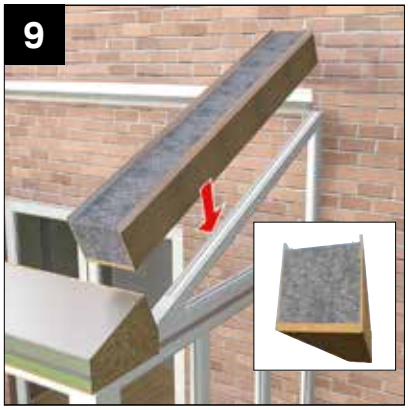
Fix the gable frame stiffener to the aluminium beam fixing plate using 4 x **RRR025** (**PROVIDED**). Secure along the length of the stiffener at 500mm centres into frames.

**8**



Apply silicone to the gable frame stiffener and fix the gable frame. Trial fit the infill wedge and coupler prior to final fixing.

**9**

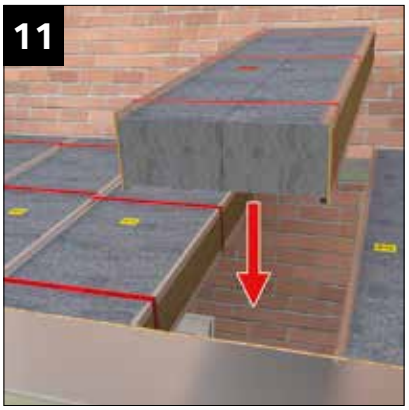


Locate end panel onto the rear wall plate shelf and box beam shelf. Ensure OSB boarding on end of gable panels are flush with the end of the beam. All gable end panels are supplied with OSB (timber panels) to the inside face. **DO NOT SNIP RETAINING STRAPS.**

**10**

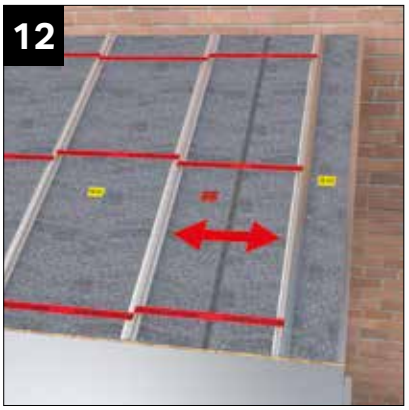
After checking the correct overhang secure the gable panels by screwing up through the head of the frames. Fixings need to be within 200mm of each corner (dependant on access) and at 450mm centres using for example, 4.8mm x 80mm screws; (**NOT SUPPLIED**).

**11**



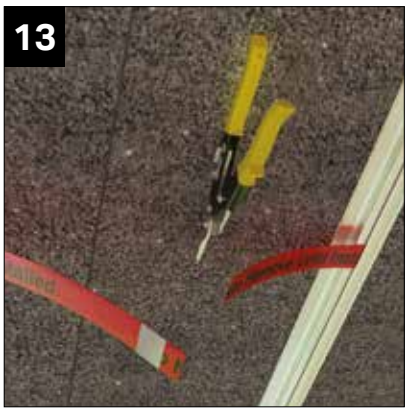
Working from LEFT to RIGHT, continue to install yellow labelled panels one at a time. Finally, lower into position the expandable roof panel (marked up with a red label). **DO NOT SNIP RETAINING STRAPS.**

**12**



The red labelled panels are always installed last. **DO NOT SNIP RETAINING STRAPS.** The expandable panel will expand sideways to take up any remaining gap.

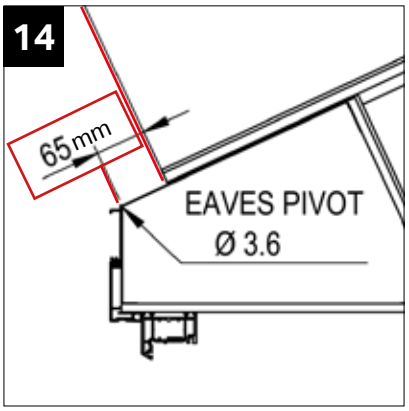
**13**



With the expandable panel in position, snip all the retaining straps.

**PANEL CLIPS SET 65mm BACK FROM THE BEAM EDGE.**

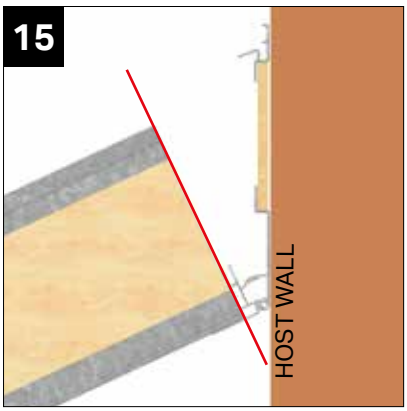
**14**




Ensure panel clip is offset from the eaves pivot by 65mm prior to knocking down. This is important to ensure correct positioning of tile starter support.

**PANEL CLIPS FINISH FLUSH WITH THE PANEL AT HALF RIDGE END.**

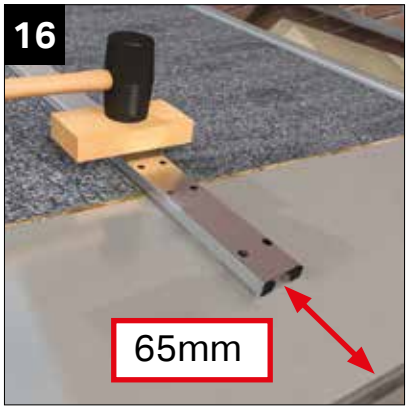
**15**




Ensure panel clip is aligned with the panels prior to knocking it down.

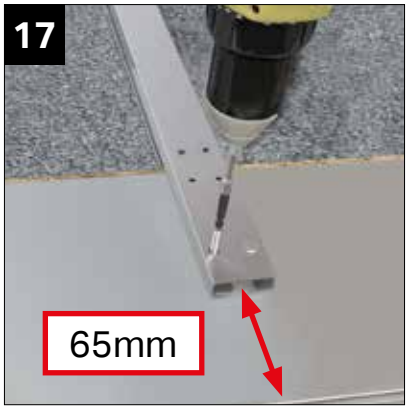
# INSTALLATION SEQUENCE

**16**



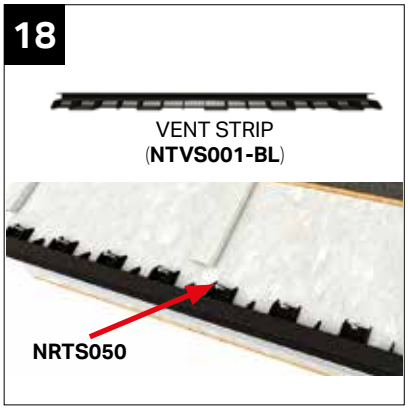

When aligned use a robust mallet to knock down the external panel locking clips (use a short length of timber to protect the clip from indentations).

**17**



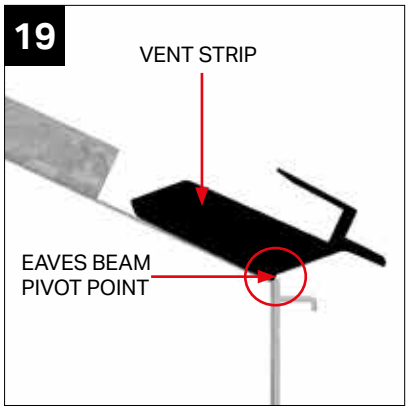

Finally secure the external clips using **GPHS050** 4.8mm x 38mm self drilling screws (**PROVIDED**). **NOTE: do not stand on the panels to secure the external clips.** Tip: on greater projections secure the clip to the beam.

**18**




Place vent strip **NTVS001-BL** on eaves beam pivot point. Fix with **NRTS050** screws (**PROVIDED**). For clarity refer to **step 19** for vent positioning.

**19**




Follow further steps for starting points and corners.

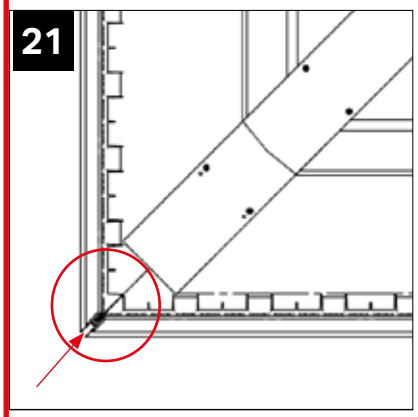
**20**

Vent strip continues along the roof and ends flush with the beam. If necessary cut down to allow for two seperate fixings and butt up two strips to each other. Allow vent strip to go right against the host wall, when installing corner lean to.

**NOTE: ABOVE IMAGE SHOWS CORNER LEAN TO AND IS AN ILUSTRATION ONLY.**

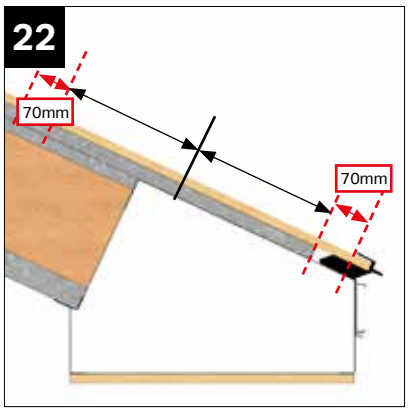
**LEAN TO WITH HIP ONLY**

**21**



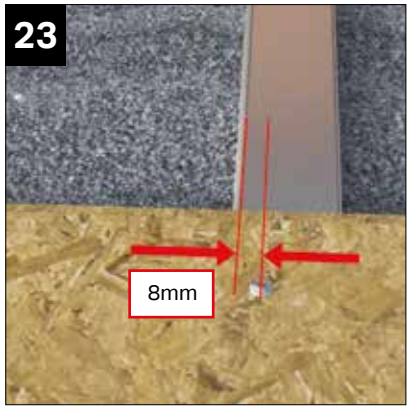
Mitre corners of vent strip.

**22**




With OSB in position fix board 70mm up from tile starter support and 70mm down from upper edge followed by 1 x central fixing. Use **GPHS050** 4.2mm x 38mm screws (**PROVIDED**).

**23**




All boards to be secured 8mm in from either edge of clip. 3 fixings per clip position using **GPHS050** 4.2mm x 38mm screws (**PROVIDED**).

**LEAN TO WITH HIP ONLY**

ON THE MITRED CORNERS OF THE BOX BEAM HIP THERE WILL BE A 30MM GAP BETWEEN THE SHEETS OF OSB. TIP: USE A 30MM TIMBER BLOCK TO CHECK THE CORRECT SPACING OF THE OSB BOARD.

SUPPORT ANY FLOATING OSB BOARDING WHEN DISTANCE EXCEEDS 600MM TO EXTERNAL HIP USING TIMBER BATTENS PROVIDED.

# INSTALLATION SEQUENCE

**LEAN TO WITH HIP ONLY**

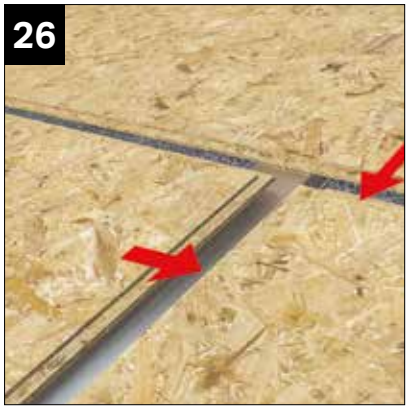
**24**

Support any floating OSB boarding when distance exceeds 600mm to external hip using timber battens provided.

**25**

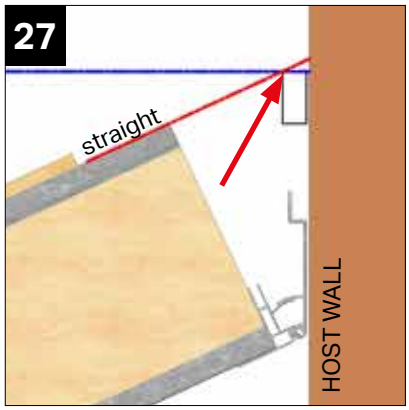
Where required support OSB board at butt joints using timber battens supplied. Battens are 65 x 19 x 700mm long (**NRPB010**). Required to all joints using the screws provide Use **GPHS050** 4.2mm x 38mm screws (**PROVIDED**).

**26**



All OSB board edges are tongue and grooved to allow positive location. Continue to board from bottom to top (box beam to wall plate).

**27**

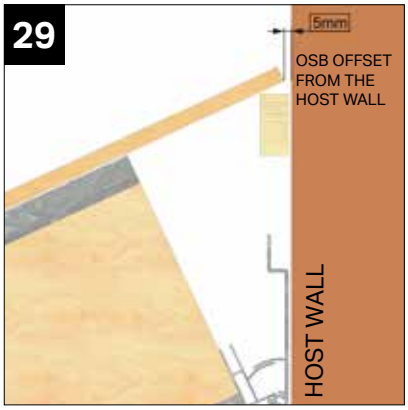



A timber support batten 20mmX 44mm (**NRPE/1**)needs to be fixed to the host wall to support the last row of OSB. To set position of batten use the above diagram.

**28**

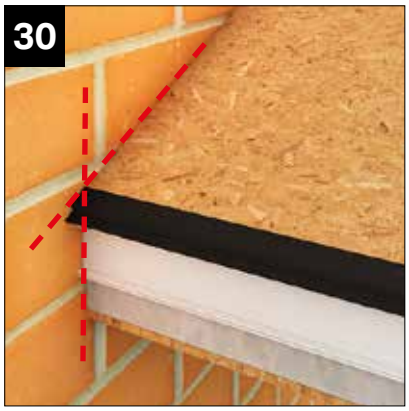
**NOTE: before fitting last row of OSB at the half ridge, ensure to fully insulate with supplied mineral wool between top of panels and host wall.**

**29**



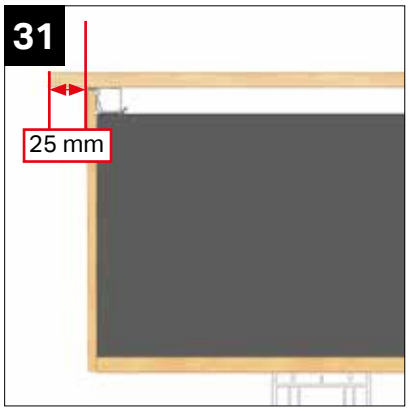

When placing the last row of OSB ensure 5mm offset from the host wall.

**30**



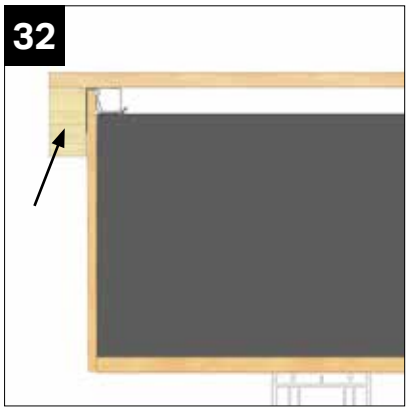
If against the host wall allow OSB to align with box beam. Fill any gaps with expanding foam (**NOT SUPPLIED**).

**31**




Where there is no host wall at gable ends, OSB should overhang the beam by 25mm as shown above.

**32**

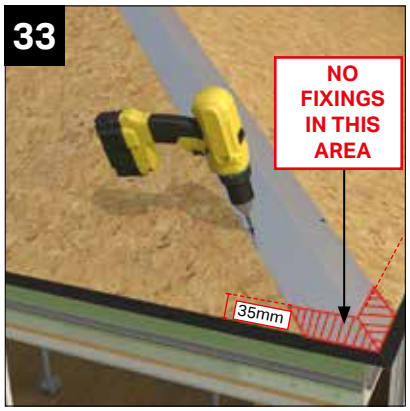


At each gable end where there is no host wall fix 25mm x 44mm **LVBG240** batten.

# INSTALLATION SEQUENCE

**LEAN TO WITH HIP ONLY**

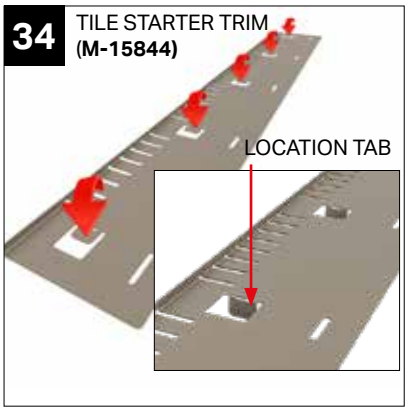
**33**




Fit steel hip plates inline with upper edge of the tile starter support strip. Use **NRTS050** fixings (**PROVIDED**) at 300 centres through predrilled holes.

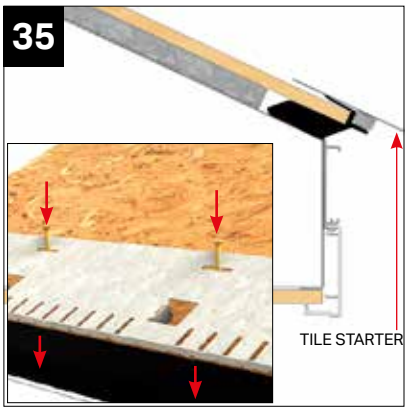
**NOTE: THESE COULD BE SUPPLIED IN TWO LENGTHS. IF OVER 3.2M TO ALLOW FOR ADJUSTMENT OVERLAP IF REQUIRED.**

**34**



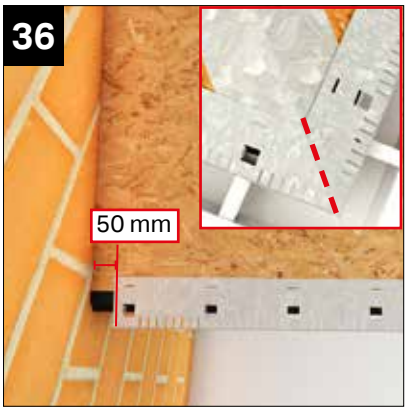

**Fold down minimum of two location tabs before fitting tile starter trim (M-15844).** These tabs set out the position of the tile starter support.

**35**




Fix tile starter (**M-15844)** into position as above then screw to OSB using **NRPS050** screws (**PROVIDED**).

**36**




Starter trim continues along the roof, ends 50mm away from the edge of the beam at gable end and overlaps by 64mm, cut down where needed. Allow 50 mm in between host wall and tile starter and same for valley. Mitre corners on site. **NOTE: ABOVE IMAGE SHOWS CORNER AND HIP LEAN TO AND IS AN ILUSTRATION ONLY.**

**37**

When all external panel clips are installed, fix (at 1 metre centres) using the supplied gable tie-plates **WPPC002** using 4 x **GPHS050** screws (**PROVIDED**).

**38**

Secure the gable end panel (s) only by screwing up through the box beam shelf and the upper half ridge shelf using 1 x **GPHS050** screws (**PROVIDED**).

**39**

Now offer into position the pre-drilled internal panel clips. Again, use timber packer to prevent indentations to the internal clip.

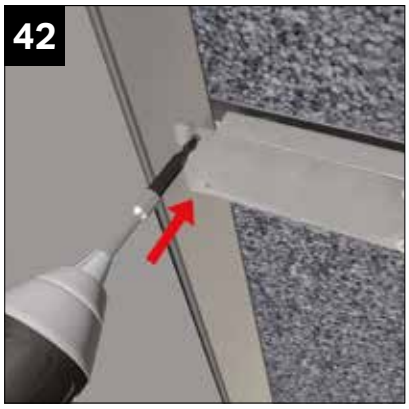
**40**

Firstly secure into the panel (at the ridge end) using dry wall fixing screws **GPHS050 (PROVIDED).**

**41**

Secure into the panel (at box beam end) as previous image.

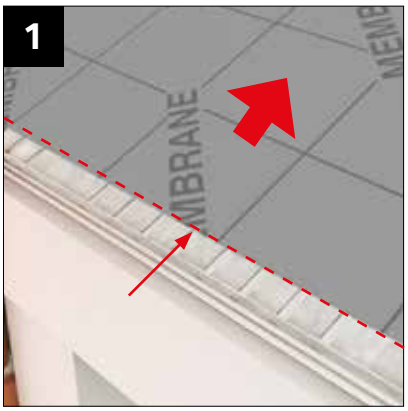
## INSTALLATION SEQUENCE



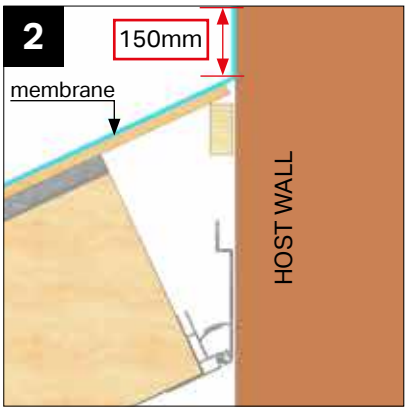

Secure to the half ridge body, the upper attachment plate using 2 x **GPHS050** fixings (**PROVIDED**).


Finally secure to box beam support shelf the lower attachment plate using 2 x **GPHS050** fixings (**PROVIDED**) .

## MEMBRANE INSTALLATION

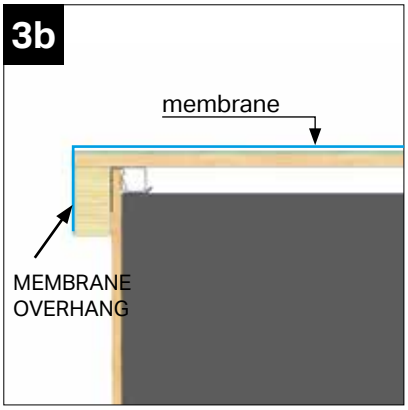



Position membrane and start at eaves. Align membrane to the top of vent slots of the tile starter. Work up the roof, overlapping the previous layer by 150mm at pitches of $14^{o}$ or and 100mm at $15^{o}$ and above.




Ensure 150mm membrane up the host wall.


Cut the breathable membrane underlayer to the width of the roof deck plus 70mm overhanging the OSB at each end. **For clarity ref. to image 3b.**

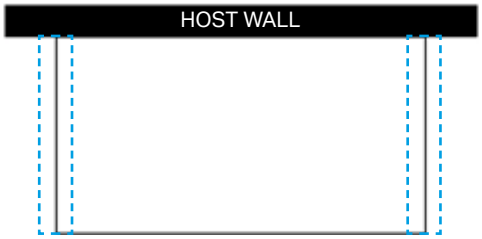



Ensure miniumum 70mm membrane overhang, to go over the batten on each gable end.

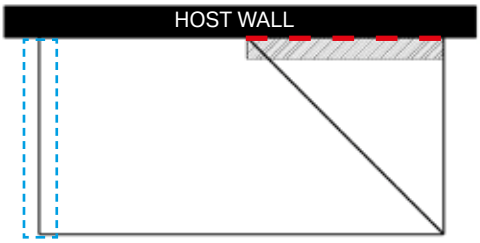
# SOAKER DETAIL

**NOTE: ONCE ROOF IS FULLY COVERED WITH MEMBRANE, USE BELOW DIAGRAMS TO IDENTIFY SOAKERS NEEDED FOR YOUR PROJECT.**

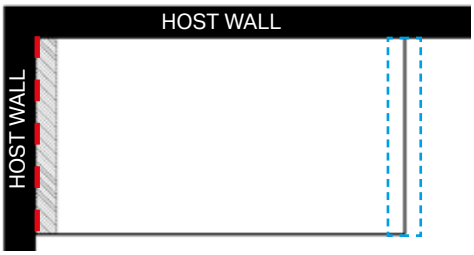
**A. STANDARD LEAN TO:**



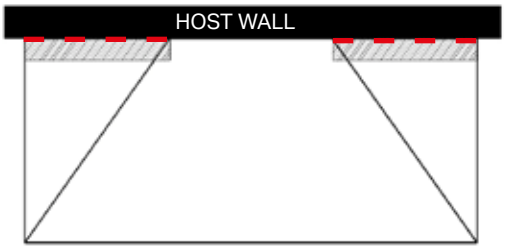

**B. LEAN TO WITH HIP:**




**C. CORNER LEAN TO:**

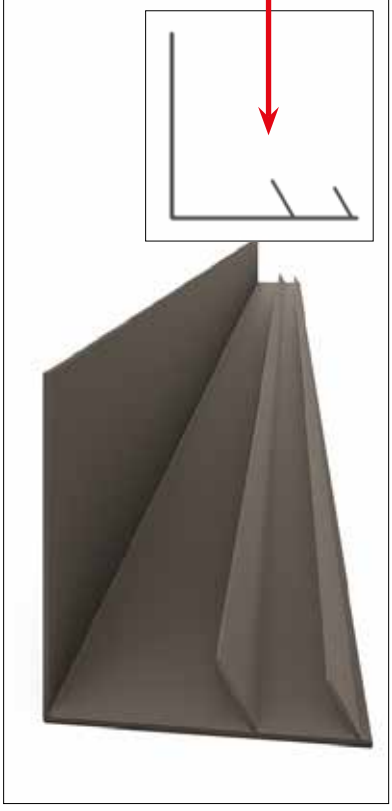


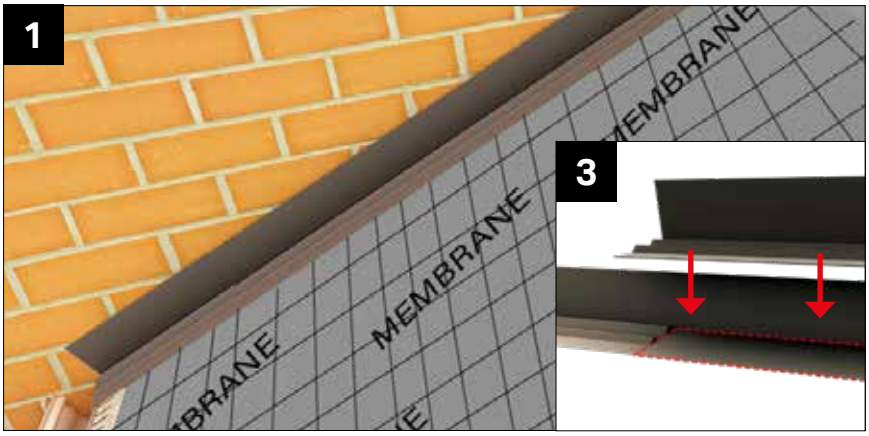

**D. LEAN TO DOUBLE HIP:**

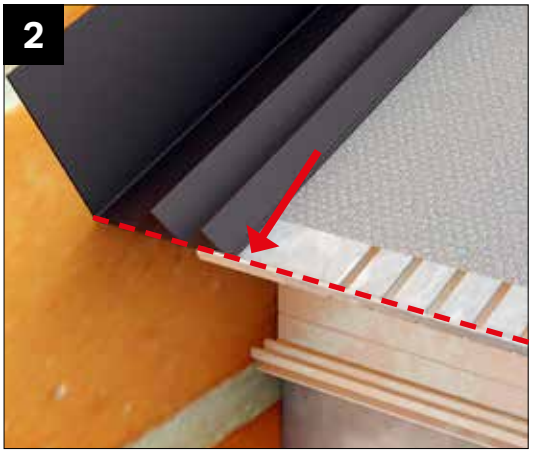



**KEY:** GABLE END SOAKER **MTES300**
SOAKER **MTGT125 A**

**MTES300** SOAKER





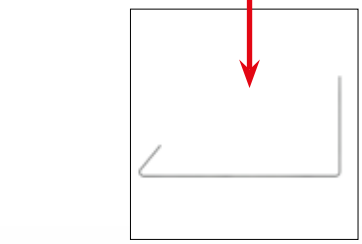

**1.** Silicone soaker **MTES300** back to the host wall, pack off if necessary.

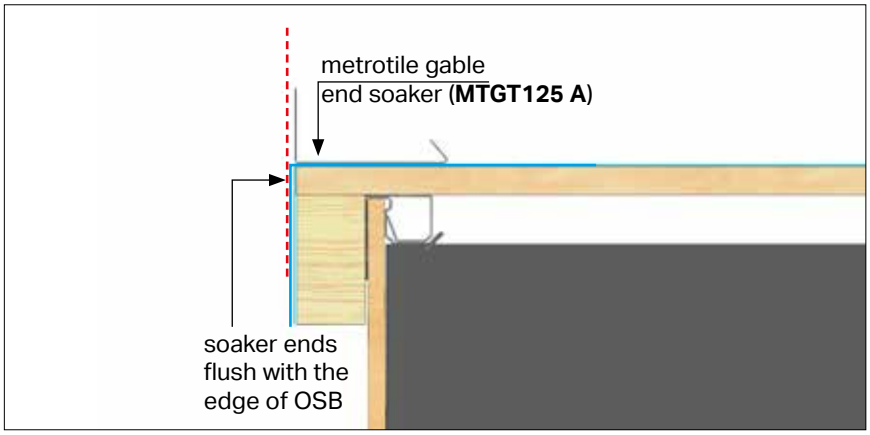
**2.** Ensure it runs up to the tile starter trim at eaves, **as shown image 2**.

**3.** Cut back bottom gasket and overlap 300mm, if soaker longer than 3m is required, **as shown image 3**.

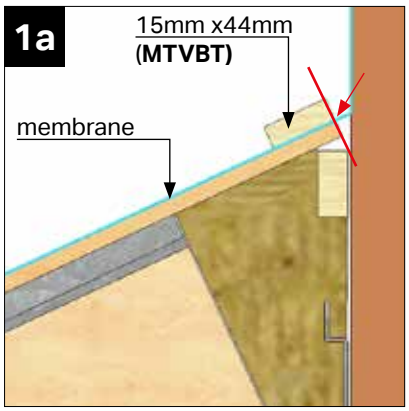
## SOAKER DETAIL

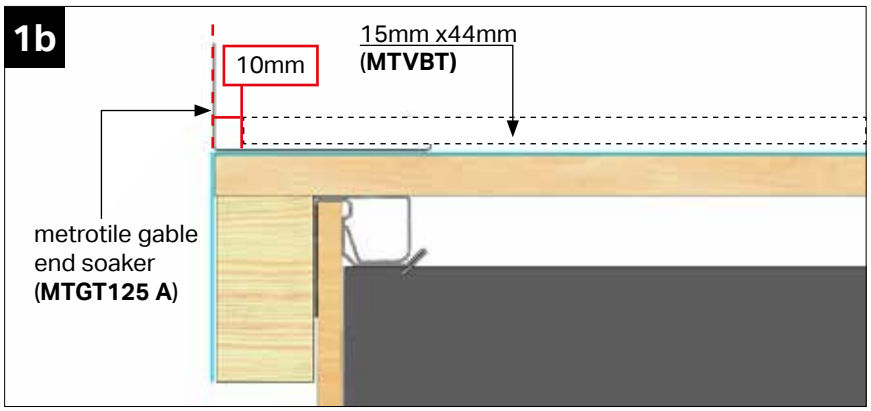
METROTILE GABLE END SOAKER **MTGT125 A**






## RIDGE BATTEN INSTALLATION

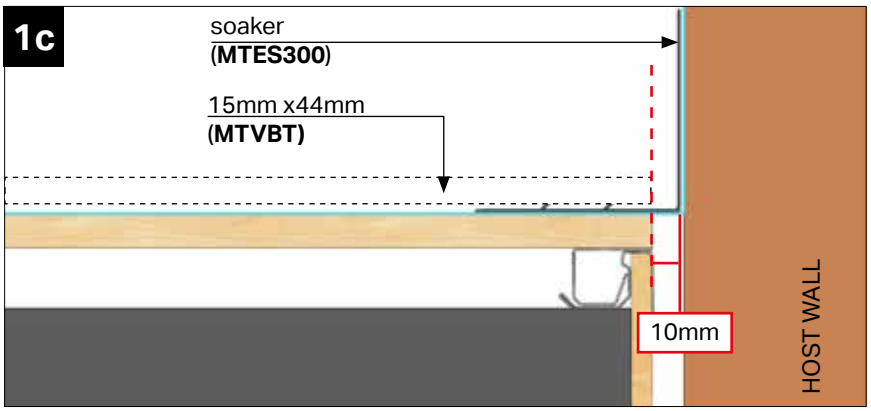



Once soakers installed, place 15mm x 44mm **MTVBT** batten, ensure it ends flush with top edge of the OSB, use **GPHS050** 4.2mm x 38mm at 500 ctrs screws (**PROVIDED**) to fix.

When placing the batten against the **metrotile gable end soaker** ensure 10mm gap inbetween the soaker and the batten (**as shown image 1b**).

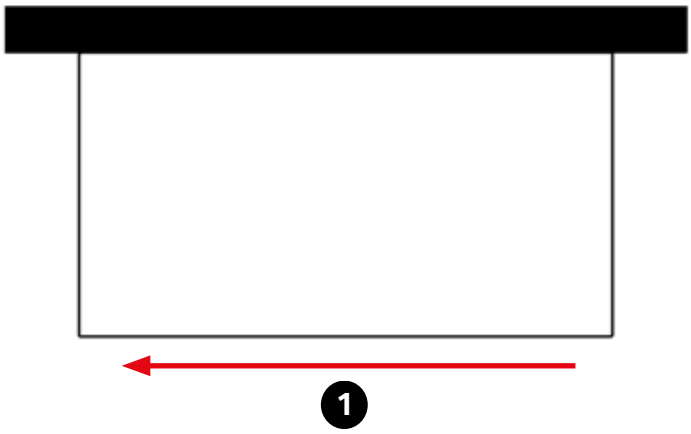
When placing the batten against the **MTES300 soaker**, ensure 10mm gap inbetween the soaker and the batten (**as shown image 1c**).



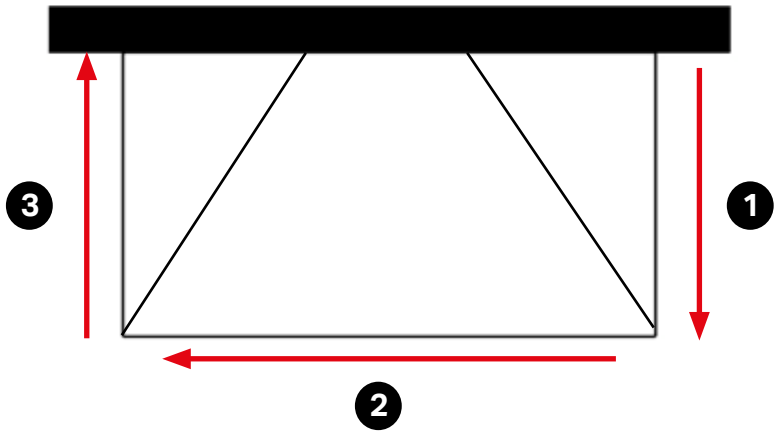
## TILING OVERVIEW


## TILING DIRECTION

**A. STANDARD and CORNER LEAN TO**




**B. LEAN TO HIP AND DOUBLE HIP**



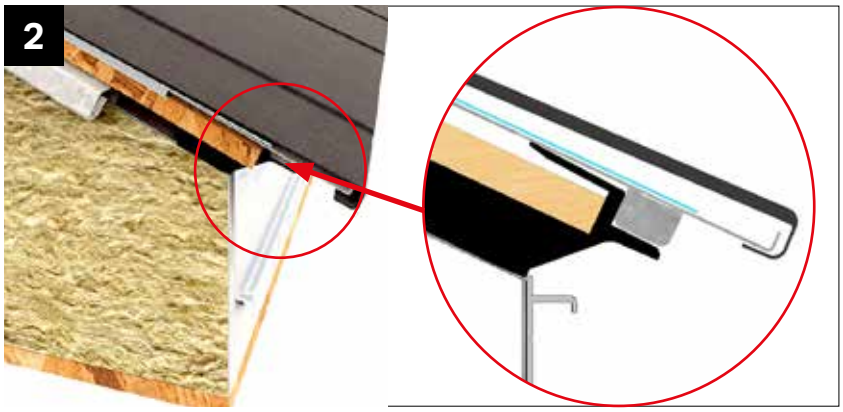

**ALWAYS INSTALL TILES IN THE DIRECTION AS SHOWN ABOVE**

# TILES INSTALLATION SEQUENCE

**1**

Place the first tile at the right hand side of the extension.

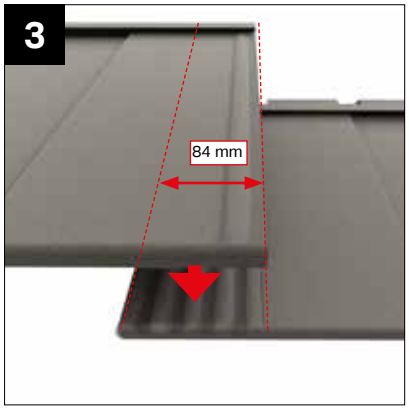
**2**



Ensure tiles hook over the tile starter, each full tile is secured using **4 x NROS050** 4mm x 25mm screws (**PROVIDED**).

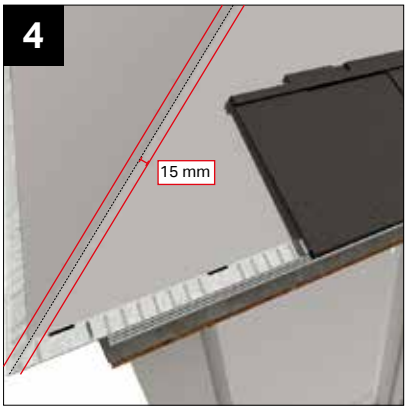
## LEAN TO WITH HIP ONLY

**3**



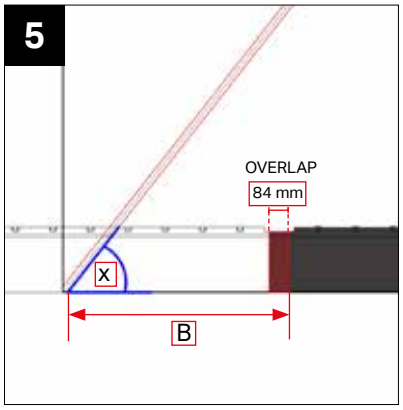

Each tile overlaps by 84 mm.

**4**




When reaching the hip, allow 15 mm gap in betwen centre line of the hip plate to the edge of the tile (**ref. to cross section 2 page 119**). Mark line along the hip as shown on both sides of the hip plate.

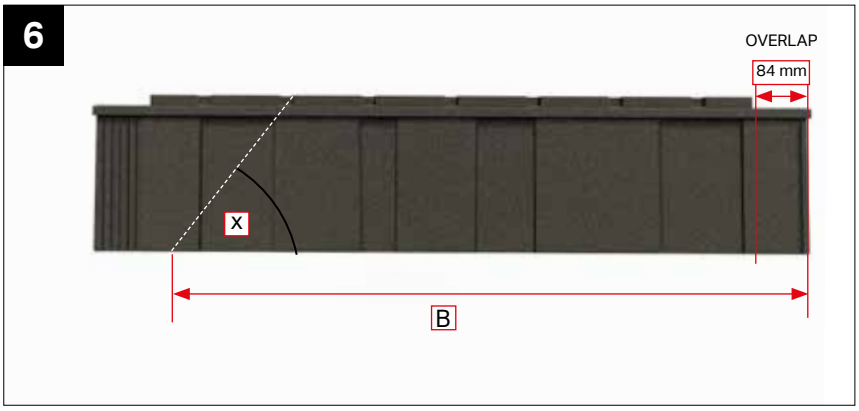
**5**




At the bottom of roof measure from the edge of the last tile to the marked out previously line, add 84 mm to overall dimension (as above dim B). Use angle finder to determine the angle. **Refer to STEP 6** for clarity.

## LEAN TO WITH HIP ONLY

**6**




**7**

Scribe the angle onto the face of the tile.

# TILES INSTALLATION SEQUENCE

**LEAN TO WITH HIP ONLY**

**8**

Clamp the tile securely to bench or similar, then cut using snips or similar.

**9**

Ensure to engage each lower lip by tapping into position. For best optimazation of tile cutting and joints staggering **refer to image 10.**

**10**


Ensure cut tiles are utilised along next row and must always be the first tile of that row. Minimum length of tile to be used should be 215mm. Ensure minimum 200 mm overlap in tiles joints relative to the following row.

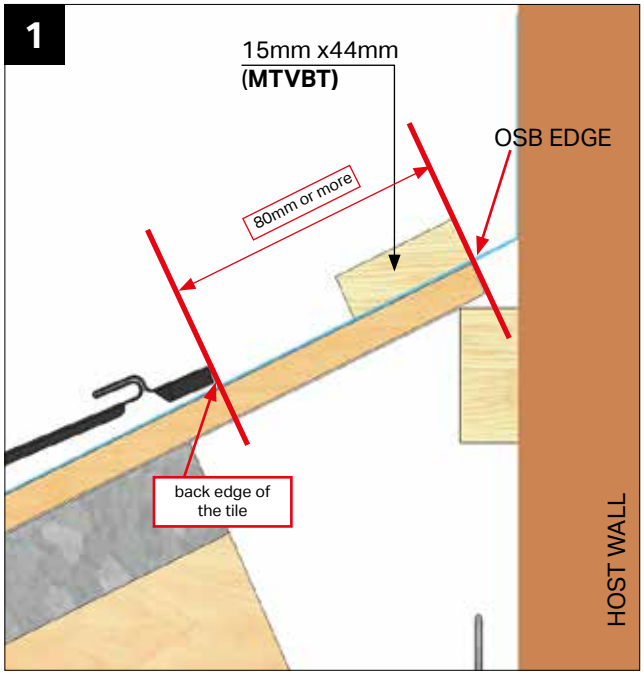
# RIDGE BATTENS AND LAST TILE SETTING OUT

## WITHOUT TILE CATCHER

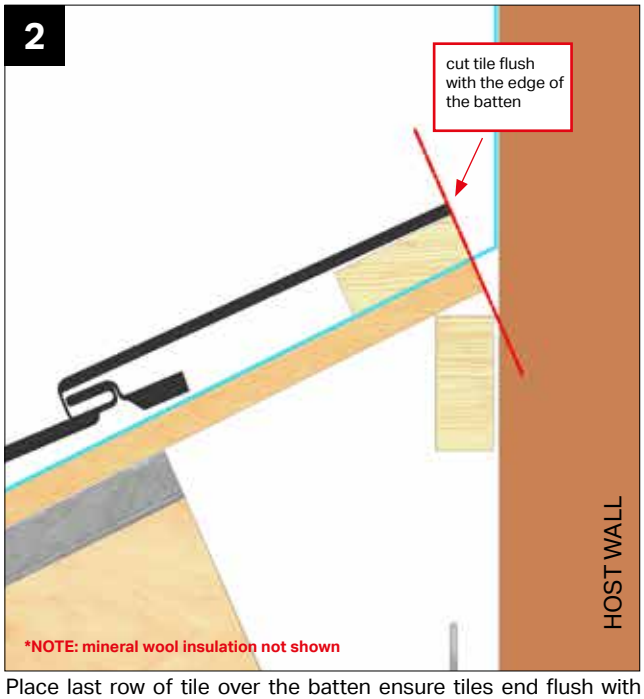
**IMPORTANT:**

ONLY FOLLOW THESE STEPS IF **TILE CATCHER IS NOT SUPPLIED**. IF DISTANCE FROM THE OSB EDGE TO THE BACK EDGE OF THE SECOND TO LAST ROW OF TILE IS **EQUAL OR GRATER THAN 80 mm** TILE CATCHER IS NOT SUPPLIED.

IF TILE CATCHER HAS BEEN SPECIFIED MOVE TO THE NEXT SECTION (RIDGE BATTENS AND LAST TILE SETTING OUT WITH TILE CATCHER PAGE **118**).




Before fitting last row of tiles ensure **MTVBT** battens are fitted Ensure distance from the edge of OSB the back of last tile is greater or equals 80mm.




Place last row of tile over the batten ensure tiles end flush with the end of batten, cut tile to size as necessary. Secure tiles using **NROS050** 4mm x 25mm screws (**PROVIDED**).

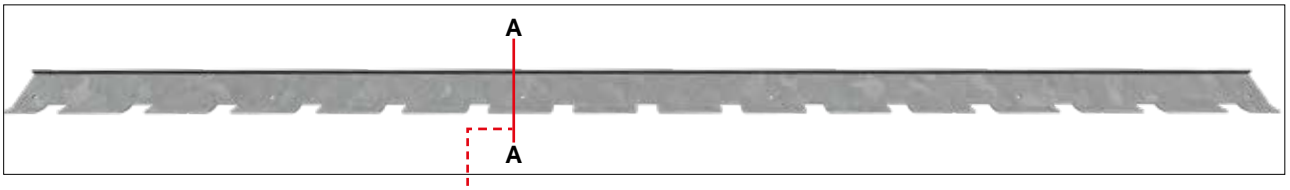
# RIDGE BATTENS AND LAST TILE SETTING OUT

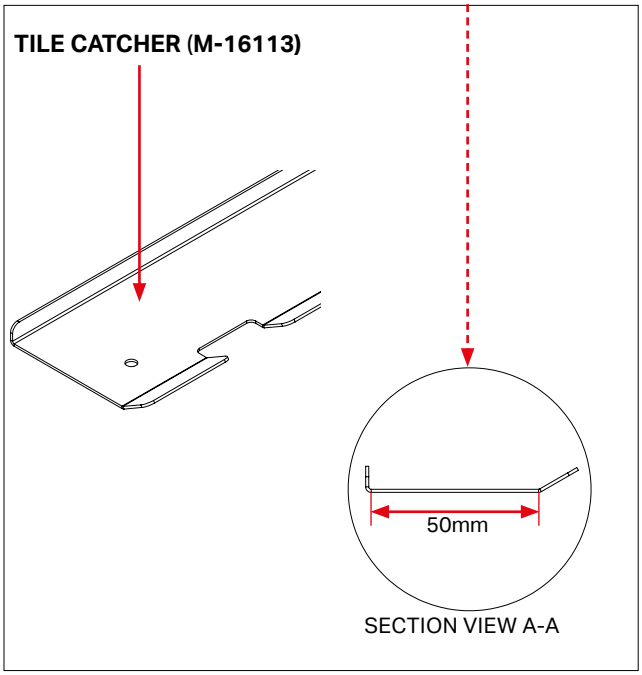
## WITH TILE CATCHER

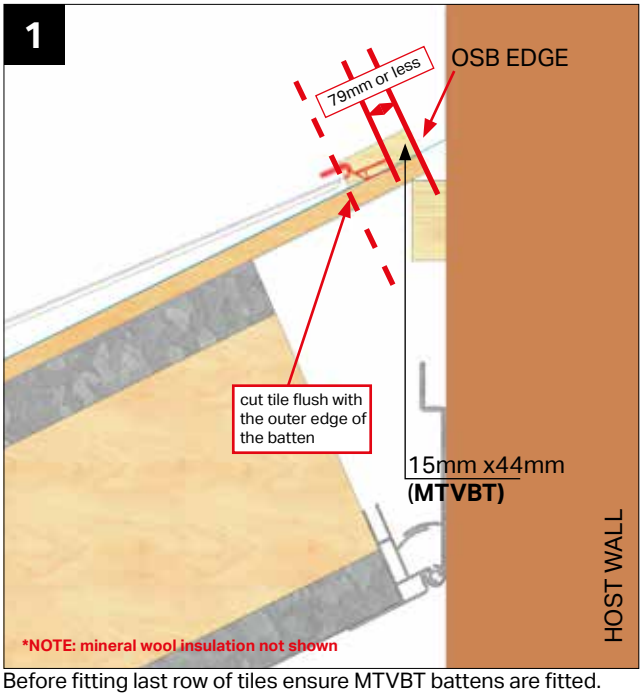
**IMPORTANT:**

ONLY FOLLOW THESE STEPS IF **TILE CATCHER SUPPLIED**.

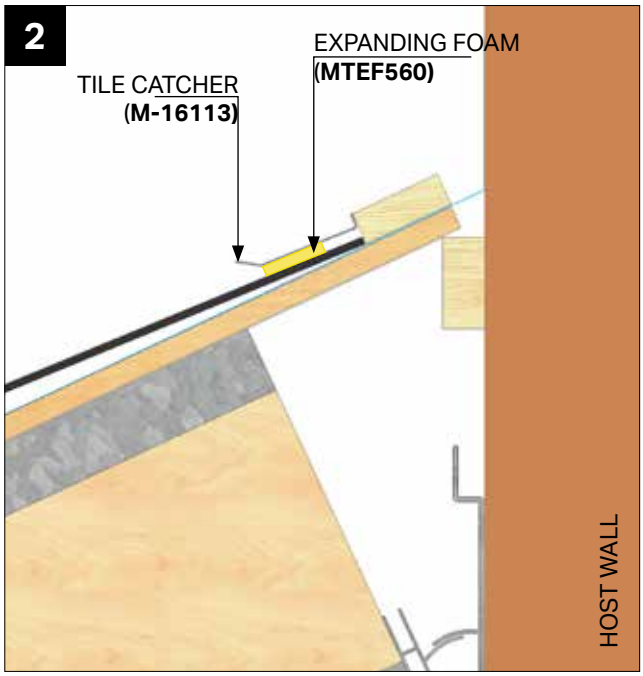
TILE CATCHER IS SPECIFIED IF DISTANCE IN BETWEEN SECOND TO LAST ROW OF TILES AND THE EDGE OF OSB IS GREATER THAN 8mm OR LESS THAN 79MM. THE REAR SECTION OF THE SECOND TO LAST ROW OF TILE IS TO BE REMOVED AND M-16113 TILE CATCHER IS SPECIFIED.



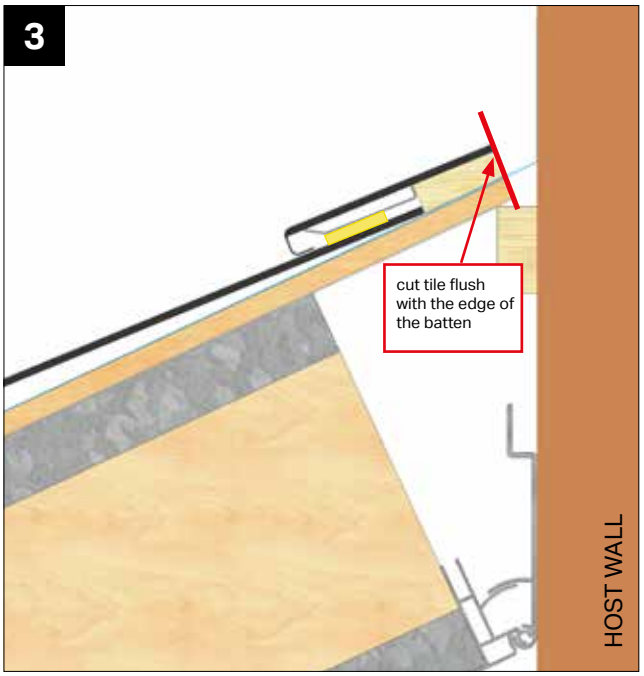




Before fitting last row of tiles ensure MTVBT battens are fitted.



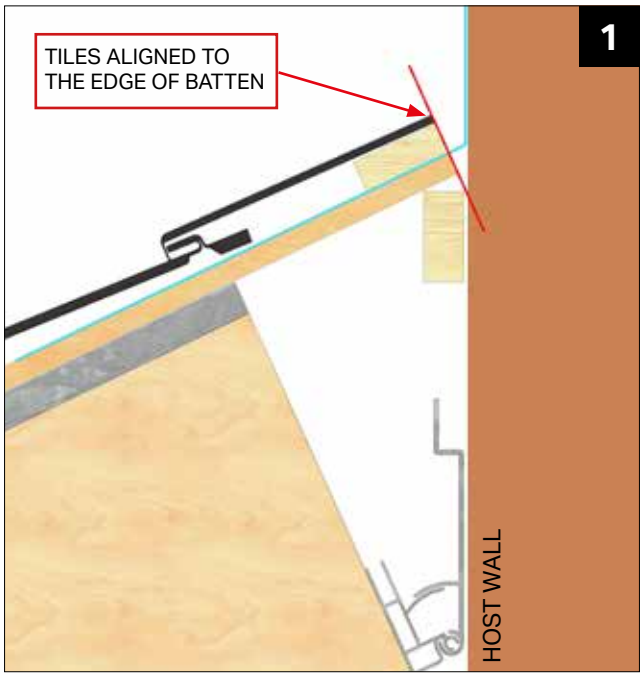

Place tile catcher **M-16113** against the batten, cut second to last row of tiles to allow for minimum 25mm overlap under the tile catcher (this is essentail to ensure seal in between tile catcher and tiles). Fix tiles down, place expanding foam **MTEF560** under tile catcher and fix it down using **NRPS050** screws (**PROVIDED**) 4.0 mm x 25 mm.



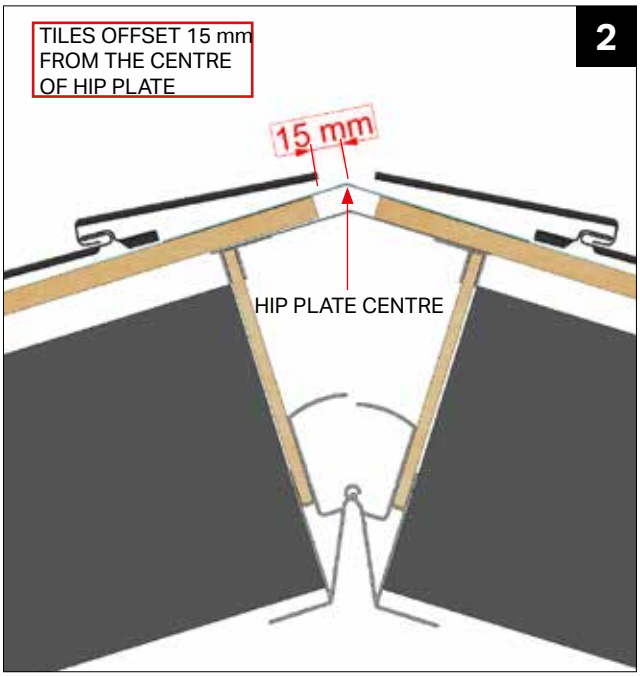

Place last row of tile over the batten ensure tiles end flush with the end of batten, cut tile to size as necessary. Secure tiles using **NROS050** 4mm x 25mm screws.

# TILES FINISHING - CROSS SECTIONS

## Tiles finishing at half ridge

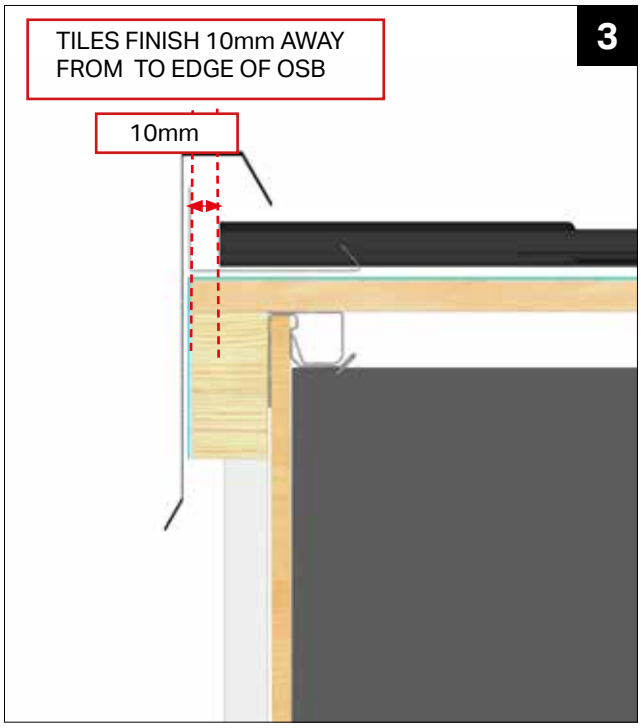



## Tiles finishing at hip

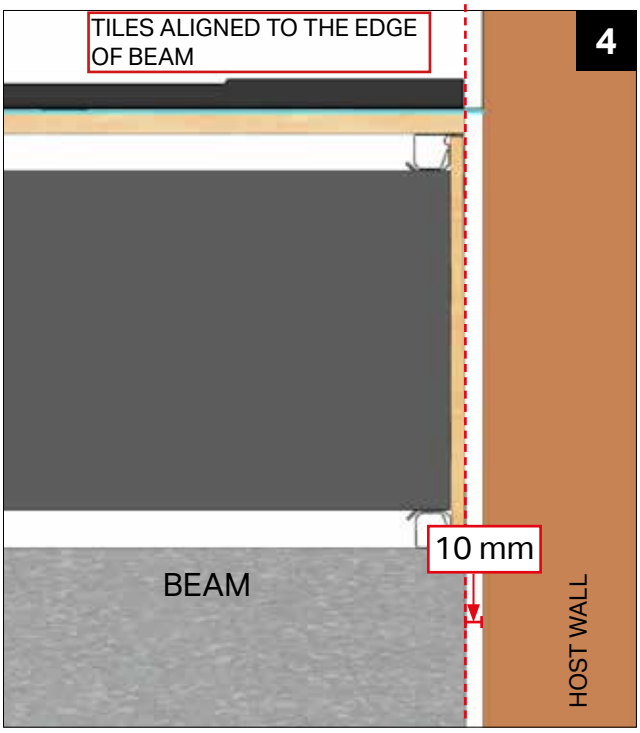



Ensure tiles offset 15mm each side from the centre of hip plate.

## Tiles finishing at gable end




## Tiles finishing at host wall

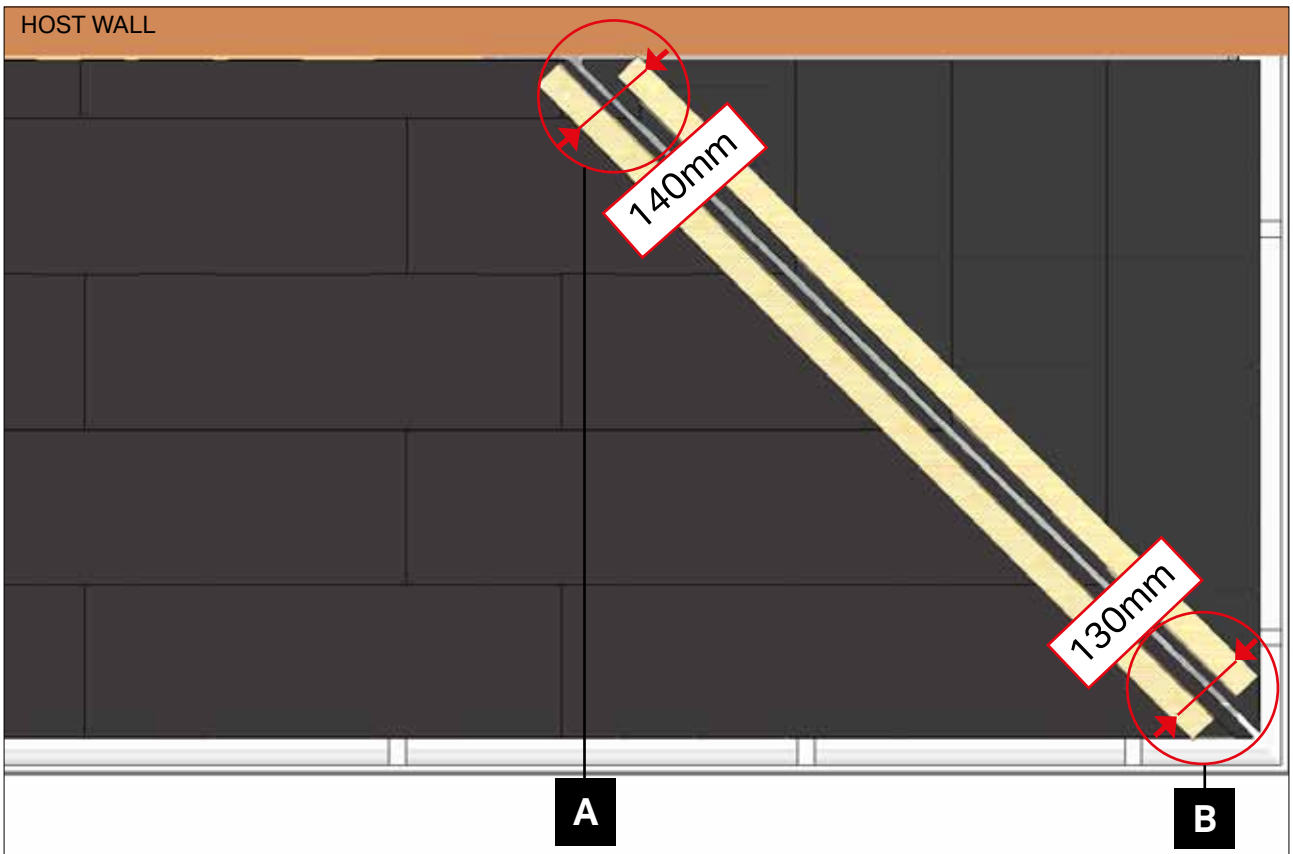



Ensure tiles are aligned to the edge of beam.

# BATTENS ON HIP SETTING OUT

## LEAN TO WITH HIP ONLY

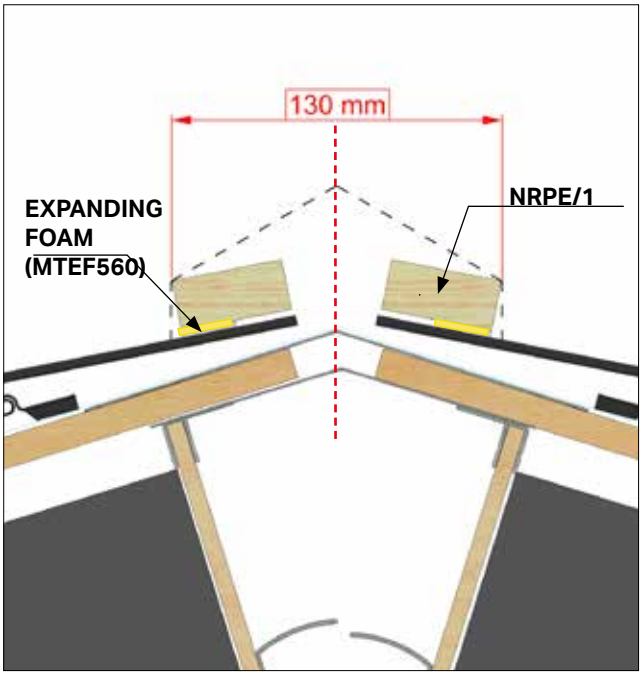
## IMPORTANT NOTE: SPLAYED HIP BATTENS



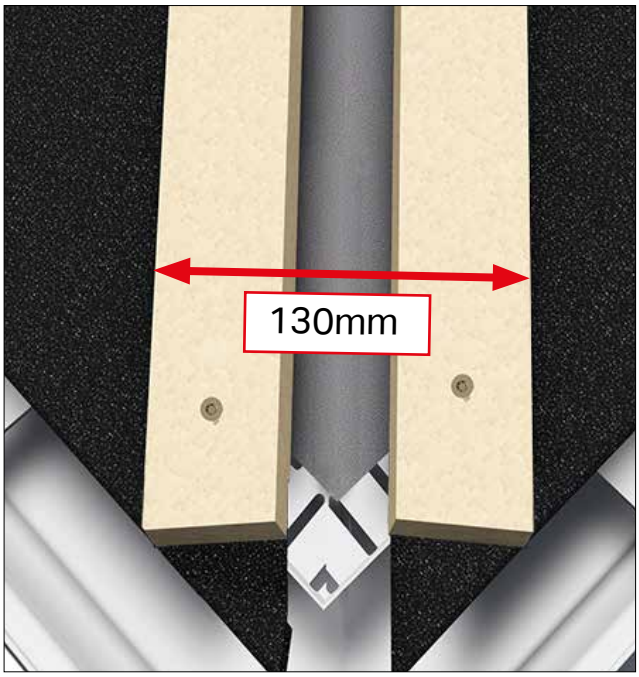

Cut battens down to size: **ref. to** **METROTILE ON OSB HIP BATTEN LAYOUT** (for hips).

## SECTION VIEWS:

### A. Battens at the bottom of hip



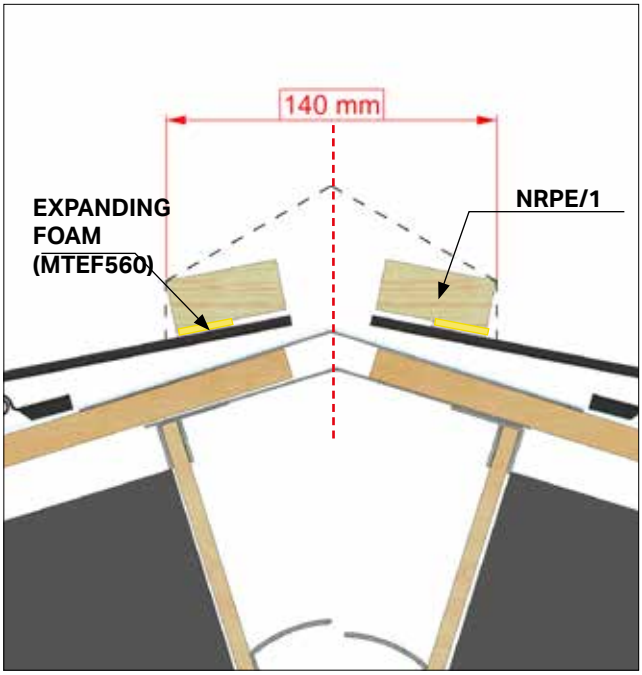

**NOTE:** Put expanding foam (**MTEF560**) under the battens before fixing battens. Ensure, expanding foam strip (**MTEF560**) lines up with outer edge of batten (as shown above).



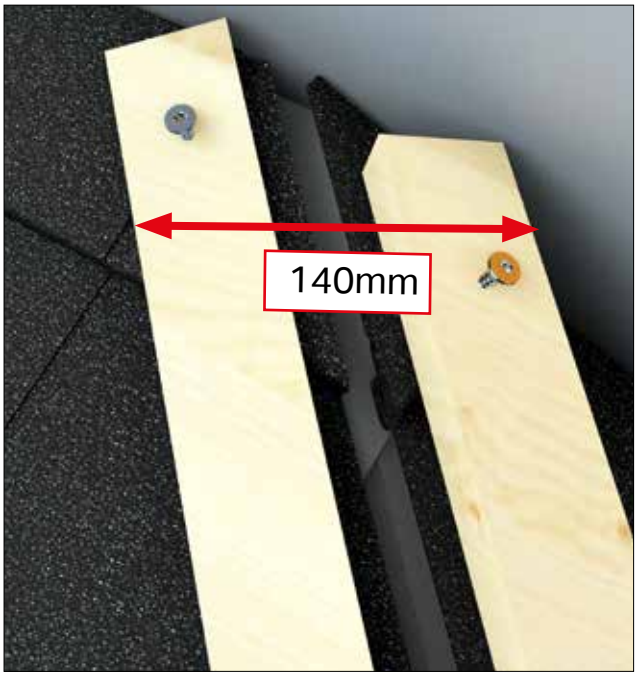

Fix hip battens on metrotile using **FSW5570** 5.5mm x 70mm screws (**PROVIDED**) at 500 ctrs, each side, each batten.

# BATTENS ON HIP SETTING OUT

## B. Battens at the top of hip

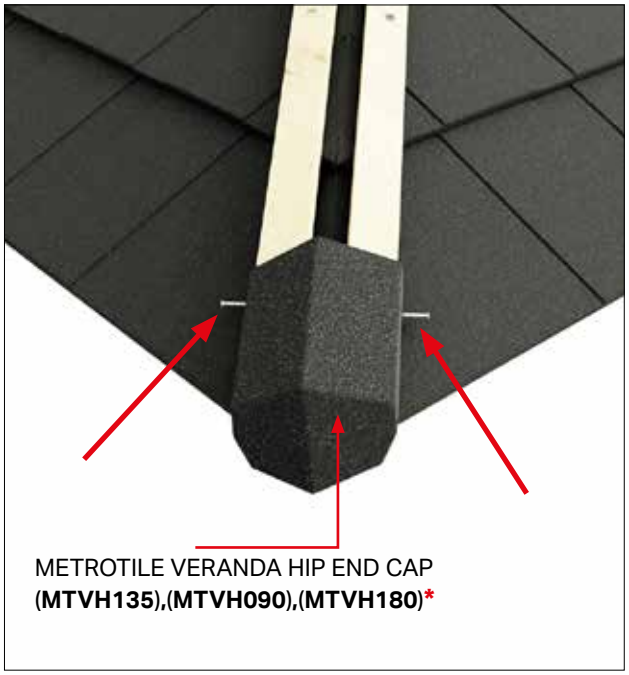



**NOTE:** Put expanding foam (**MTEF560**) under the battens before fixing battens. Ensure, expanding foam strip (**MTEF560**) lines up with outer edge of batten (as shown above).

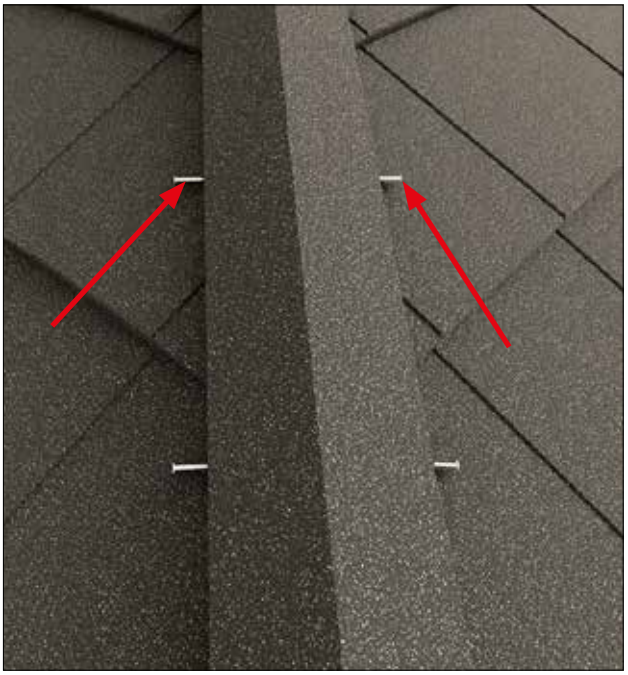



Fix hip battens on metrotile using **FSW5570** 5.5mm x 70mm screws (**PROVIDED**) at 500 ctrs, each side, each batten.

# TOP CAPPINGS - HIP ONLY



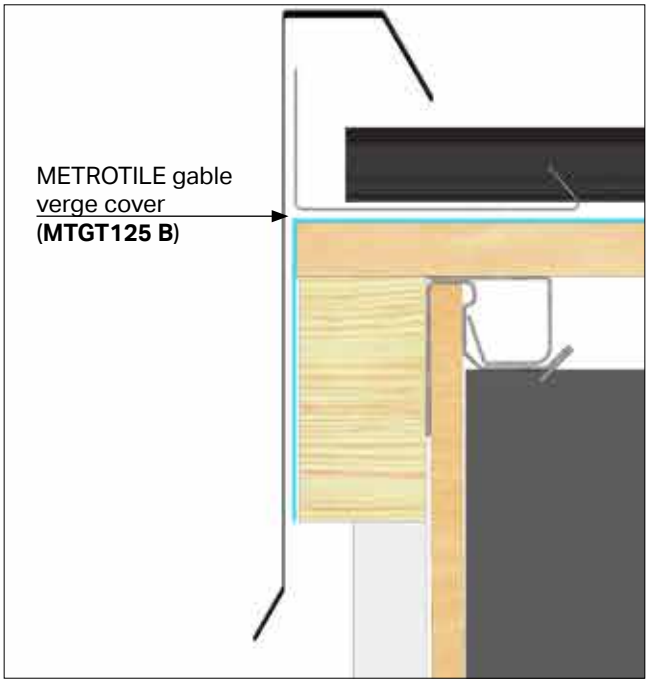

Ensure metrotile veranda hip end caps (**MTVH1365, MTVH090, MTVH180***)are installed. Use **MTSN010** 25mm shingle nails (**PROVIDED**), use one fixing per side per end cap



Ensure metrotile veranda delta hip cover (**MTVT1365)** is installed. Use **MTSN010** 25mm shingle nails (**PROVIDED**), fix 500ctr per hip cap per side.

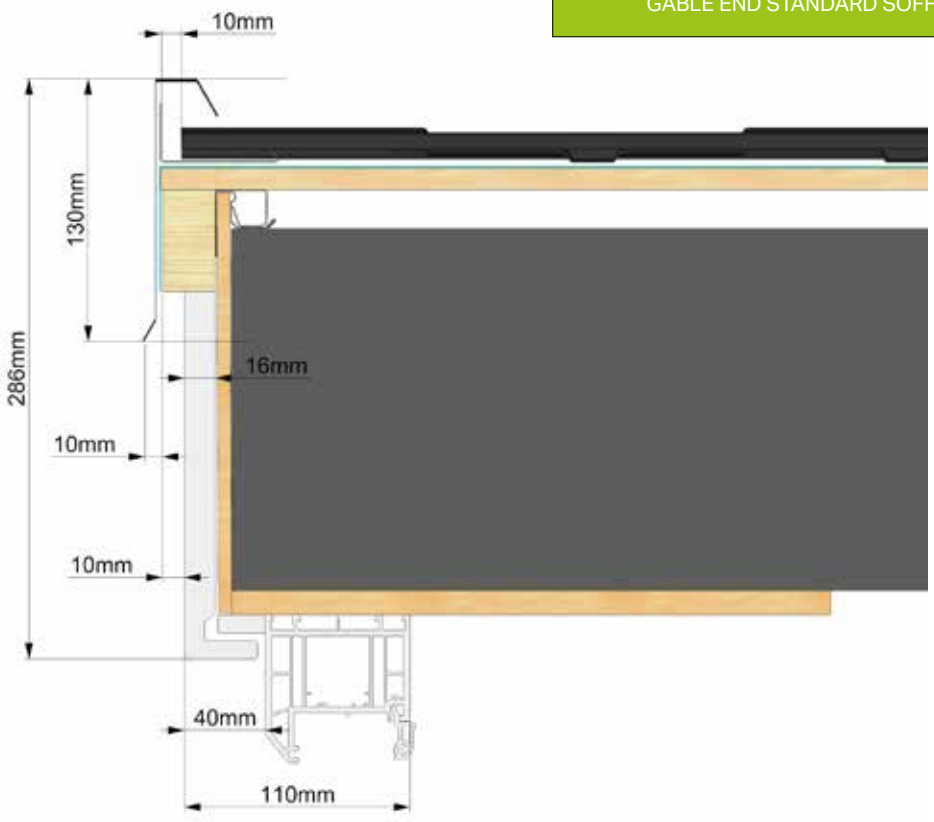
***NOTE: MAY VARY DUE TO ROOF SHAPE AND ITS PITCH.**

# GABLE VERGE COVER ASSEMBLY



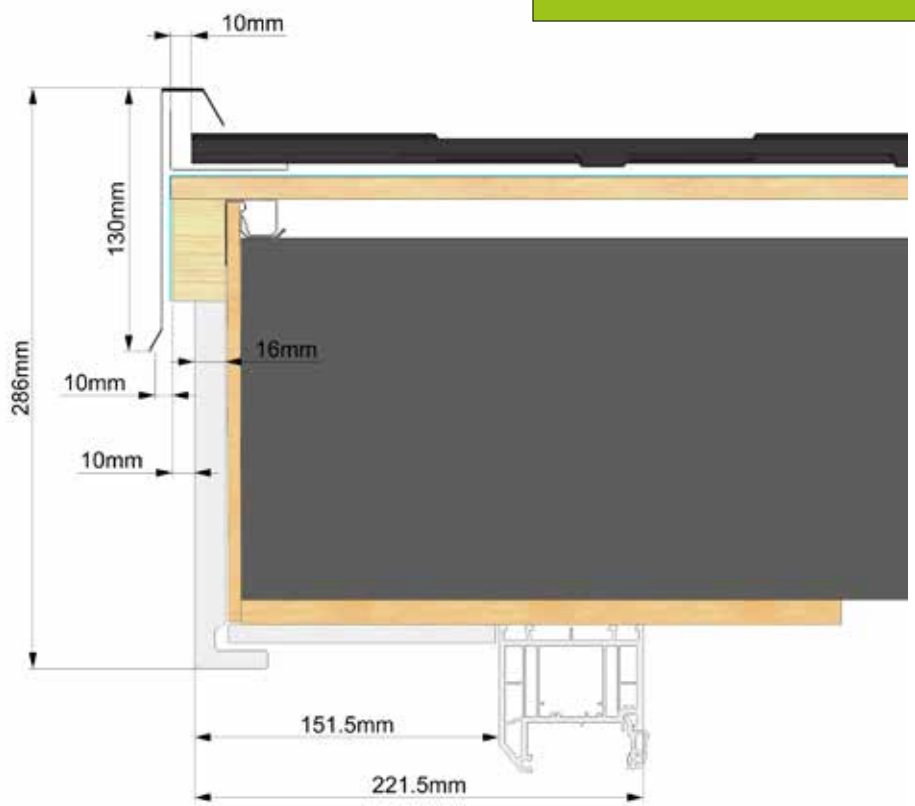

Once gable fascia and gutter are fitted, place and fix metrotile gable ends. **Refer to page 123-124 for instructions on how to cut and shape gable end cap at the gutter end**.

GABLE END STANDARD SOFFIT



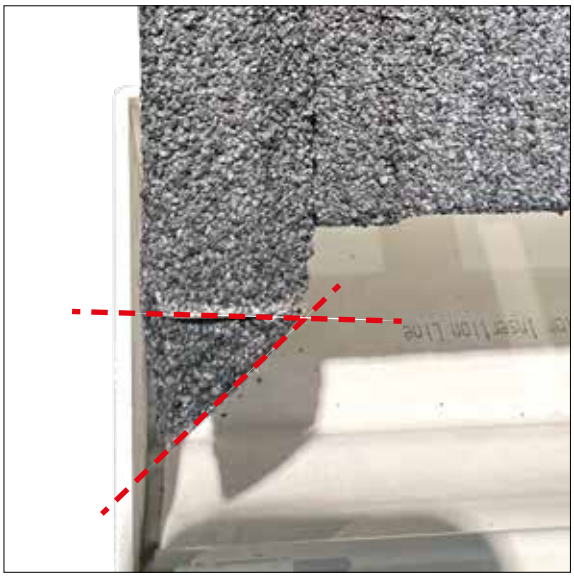
## GABLE VERGE COVER ASSEMBLY

GABLE EXTENDED SOFFIT




## GABLE END CAP AT THE GUTTER SETTING OUT

**1**



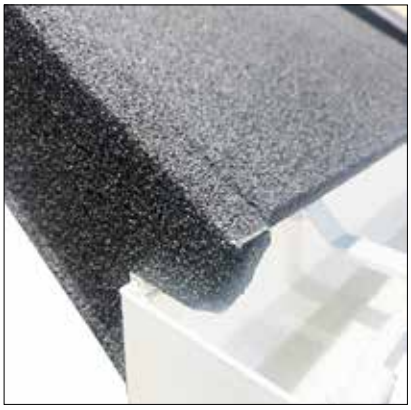
Cut as shown in red dashed lines above.

Tuck triangular part under as shown above.

## GABLE END CAP AT THE GUTTER SETTING OUT

**2**

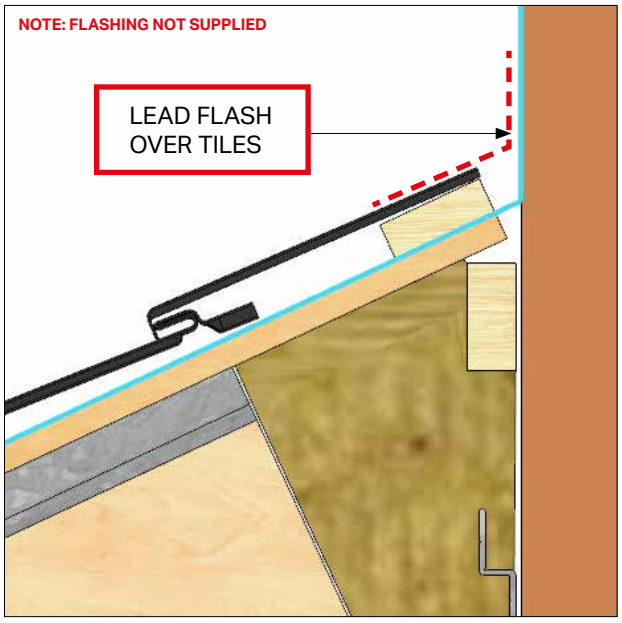
Fold to produce end cap.



| PART | IMAGE | SPECIFIC CRITERIA |
|---|---|---|
| MTRP001/L or R LEAN-TO RIDGE PLATE 16 | | 1 PER LEAN-TO GABLE |
| MTRP002 LEAN-TO RIDGE PLATE GASKET | | 1 PER LEAN-TO GABLE |

Now the dry verge is in place, please install foam backing and end cap over the dry verge as shown.

## LEAD FLASHING (**NOT SUPPLIED**)




Once roof is fully covered with tiles ensure to lead flash over the tiles and host wall.