

INSTALLATION GUIDE - 1.2M BAR ASHGRID SPACER SYSTEM

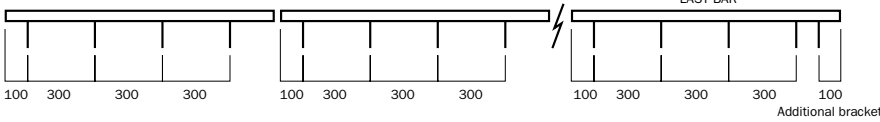
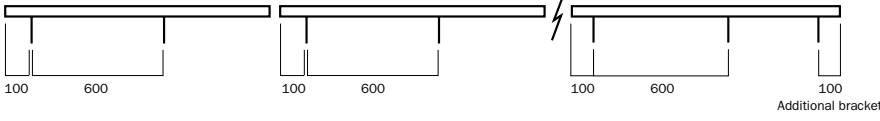
Please read prior to installation.

System Overview

The Ashgrid system is designed to meet BCA Section J1.2 requirements when specified in conjunction with a specific thickness Anticon insulation blanket. Please ensure that the system being used has been specified by a qualified person for the intended application. If in doubt, please contact CSR Bradford prior to installation.

Bracket Spacing

The table below illustrates the required position of brackets in accordance with the system design load tables. Please note that it is a system requirement that an additional bracket is placed within 100mm of the start and end of each row.

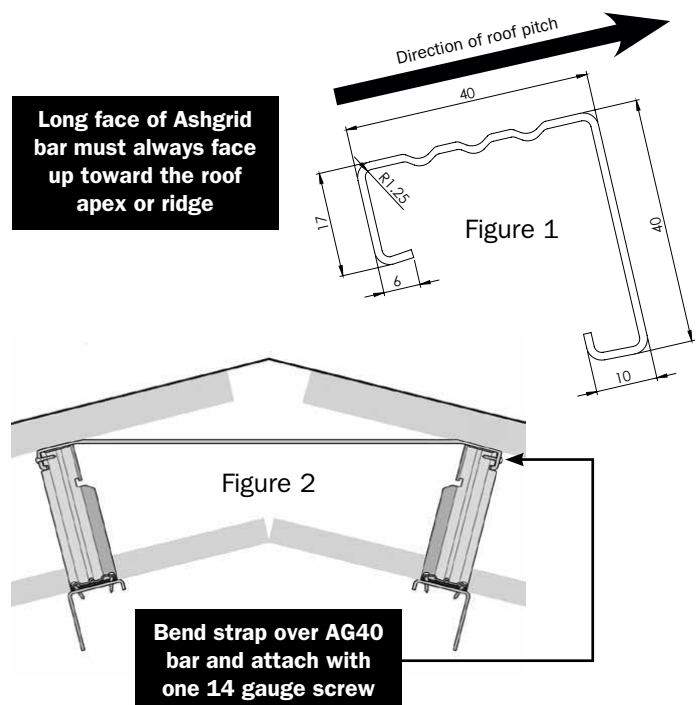
	Ashgrid bracket center spacing	Bracket Configuration (Note: A bracket must always be placed within 100mm of each end of the total Ashgrid section)	Brackets per 1200mm length
Cyclonic	300mm		4
Non Cyclonic	600mm		2

Bracket Orientation & Attachment

In order to meet design specifications it is critical that the Ashgrid bar and bracket system is installed in the illustrated orientation. In all cases the 40mm side face of the bar should be positioned to face toward the upward slope of the roof pitch.

Additionally, for roof pitches over 5 degrees in non-cyclonic regions and all roofs in cyclonic regions, Ashgrid requires the addition of a 50 x 1.0 galvanised mild steel strap (or similar) over the roof ridge line to secure the upper most Ashgrid bar to the corresponding bar on the opposite side of the ridge line. One strap per bar, located within 100mm from a bracket position.

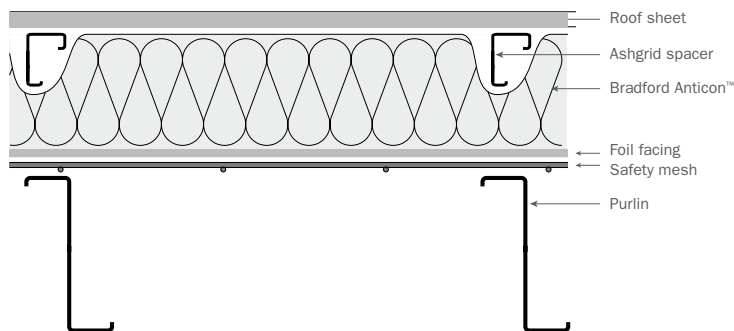
Ensure that the Ashgrid brackets are inline with their respective bracket on the opposing side of the roof ridge. For mono pitch roofs the strap shall be secured to a suitably designed structural member along the roof apex. Attachment of strap to the 17mm side wall of bar shall be via a 14 gauge roofing screw with at least 3 thread engagement.



Roof Cladding Compatibility - Important Please Read

Consideration should be given to the roof sheet profile and BMT of the roof sheet given that the top face of the Ashgrid bar is only 40mm wide. It should be noted that Custom Orb or similar curved profiles of light duty BMT may be subject to compression if the roofing screws are overloaded during assembly or static/dynamic point loads are applied. It is recommended that advice is sought from the roof sheet manufacturer prior to specification and use.

System Assembly



1. Ensure safety mesh is in place and adequate bridging is provided between purlins prior to commencing
2. Lay Bradford Anticon roofing blanket onto the safety mesh. Avoid creasing or folding the blanket during installation to ensure the foil appears smooth from within the building.

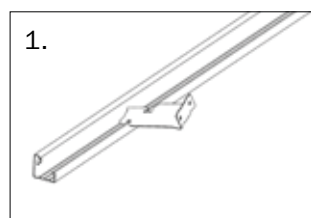
3. The start position for the bar should be established based upon the roof design criteria and roof sheet manufacturers specifications. Ensure that the first bar is orientated correctly, refer Figure 1, and that the first bracket is within 100mm of the start of the bar.
4. Position the Ashgrid Bar centrally over the purlin, compressing the Anticon blanket directly under the Ashgrid blanket.
5. Fix the Ashgrid brackets to the purlin using the pre-loaded screws - note: bars can be cut to match the length of roof. Ensure cut edge is coated with cold gal paint so to prevent corrosion.
6. When connecting the next Ashgrid bar ensure that the Safe-Loc bar connection tab fully engages with the square cut-out in the receiving bar prior to positioning the bar as described in step 4 & 5.

Note A: For timber purlin applications, minimum embedment depth is 53.4mm with minimum Type 17 screw length of 55mm.

Note B: For roof pitches over 5 degrees, always load and affix cladding symmetrically so that no one side of the roof is installed only.

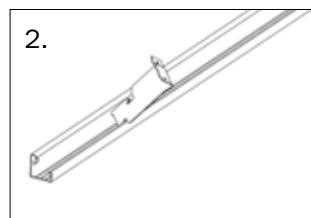
Bracket Adjustment or Addition of a New Bracket

Note: Do not force the bracket into position as it can be damaged.

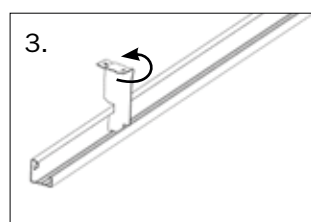


Method 1

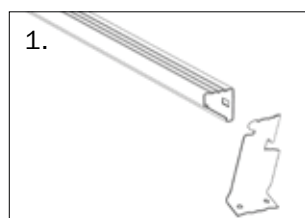
1. Establish bracket orientation by aligning the large notch on the side of the bracket with the long side of the Ashgrid bar.



2. Insert the bracket on an angle at the required position.

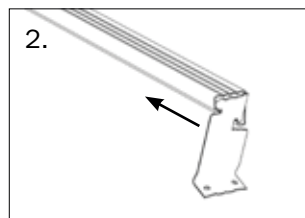


3. Once the bracket is in the correct location, lock it into position by rotating the bracket to the vertical position.

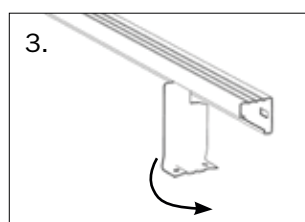


Method 2

1. Establish bracket orientation by aligning the large notch on the side of the bracket with the long side of the Ashgrid bar.



2. Slide the bracket along the inside of the bar by keeping the bracket tilted on an angle.



3. Once the bracket is in the correct location, lock it into position by rotating the bracket perpendicular to the bar.

To move a bracket that has already been assembled:

1. Disengage the bracket from the bar by rotating it in the opposite direction to the flange containing the screw holes.
2. Once disengaged the bracket can be easily repositioned and then locked into position by rotating in the opposite direction until vertical.

Cutting Bars to Fit Roof

When cutting the Ashgrid Bar to fit the roof profile, the following must be completed:

1. The exposed cut edge shall be treated with a galvanised paint of suitable quality and thickness to prevent corrosion.
2. An additional Ashgrid bracket shall be positioned within 100mm of the cut end of the Bar.

For more information, please refer to the Ashgrid Roof Spacer System section at www.bradfordinsulation.com.au

CSR Bradford make every effort to ensure the accuracy of the information in this document however it is recommended that the revision level of this document is checked at www.bradfordinsulation.com.au prior to use.