

INSTALLATION GUIDE – ASHGRID SPACER SYSTEM

Please read prior to installation

System Overview

The Ashgrid system is designed to meet BCA Section J 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 Bradford Insulation 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 centre spacing		Bracket configuration (Note: A bracket must always be placed within 100mm of each end of the total Ashgrid section)			Brackets per m
Cyclonic	0.33m				3
Non Cyclonic	0.50m				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 so 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 an M12 or M14 roofing screw with at least 3 thread engagement.

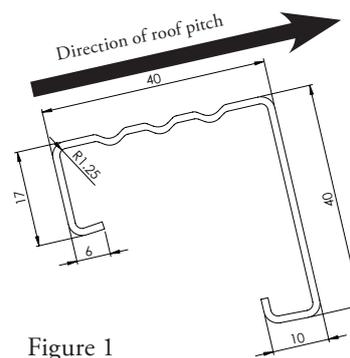


Figure 1

Long face of Ashgrid bar must always face up toward the roof apex or ridge

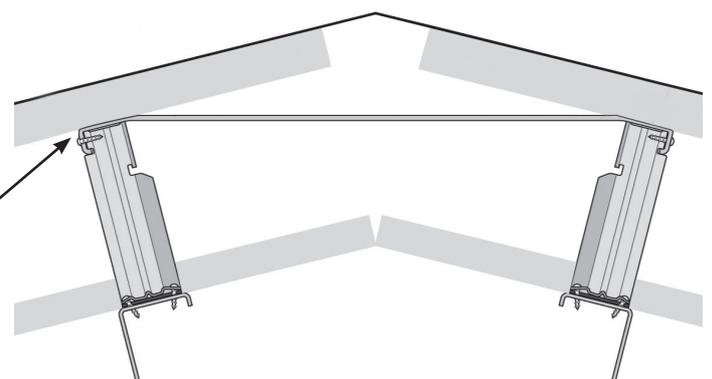
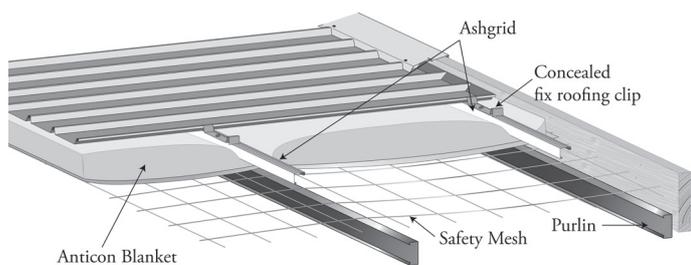


Figure 2

Bend strap over AG40 bar and attach with one screw

System Assembly



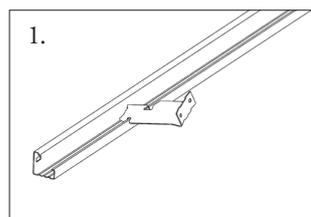
1. Ensure safety mesh is in place prior to commencing.
2. Lay Bradford Anticon roofing blanket (foil face down) onto the safety mesh. Avoid creasing or folding the blanket during installation to ensure the foil appears smooth from within the building.
3. The start position for the bar should be established based upon the roof design criteria and roof sheet manufacturers specifications. Ensure that the first bar is orientated correctly, Figure 1, and that the first bracket is within 100mm of the start of the bar.

4. Position the Ashgrid Bar over the Anticon blanket directly over the centre line of each purlin below, compressing the Anticon blanket.
5. Fix the Ashgrid brackets using specified roofing screws – refer to table 2 or if in doubt clarify with a suitably qualified person. Note that screws must be applied with a torque driver set to XXNm. 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.

Screw Gauge	Purlin BMT					
	1	1.2	1.5	1.9	2.4	3
	Tensile Connection capacity [kN]					
#10g	2.24	2.55	2.94	3.72	4.70	5.88
#12g	2.52	2.86	3.30	4.19	5.29	6.61
#14g	3.00	3.40	3.92	4.97	6.28	6.74

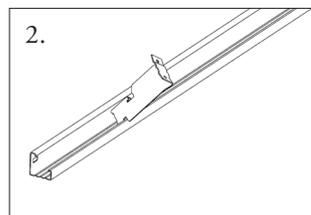
Bracket Adjustment (2 Methods)

To insert a new bracket:

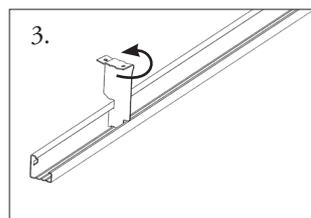


METHOD 1

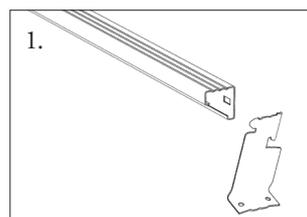
1. Establish bracket orientation by aligning the large notch on the side of the bracket with the long side of the Ashgrid bar



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

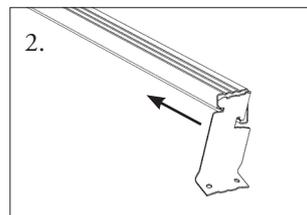


3. Once the bracket is in the correct location, lock it into position by rotating the bracket to the vertical position

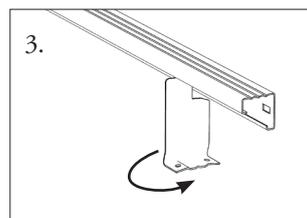


METHOD 2

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 Bradford Spacer System section at www.bradfordinsulation.com.au.

Bradford Insulation 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.