



# OPEN PROTECTED RIDGE INSTALLATION GUIDE

## OPEN PROTECTED RIDGE SYSTEM

Efficient ventilation is important in the design of an agricultural building. The Open Protected Ridge ventilation system is specifically designed for livestock buildings, as it supports animal welfare by reducing moisture levels which can carry bacteria and disease. It provides efficient ventilation whilst at the same time, reducing heavy draughts.

The Open Protected Ridge ventilation system provides optimum ventilation at the apex of the ridge using the stack effect and is therefore particularly efficient at removing moisture saturated air from within the building.

As air flows up the outside slope of the roof it hits the upstand of the ridge deflecting the air upwards, creating negative (low) air pressure helping to draw the air through the opening at the apex of the roof between the top sheets.

This does not only help the ventilation of the internal airspace, but also the airflow blows away rainfall from the opening in the apex, and stops rain entering the building.



[www.briarwoodproducts.co.uk](http://www.briarwoodproducts.co.uk)

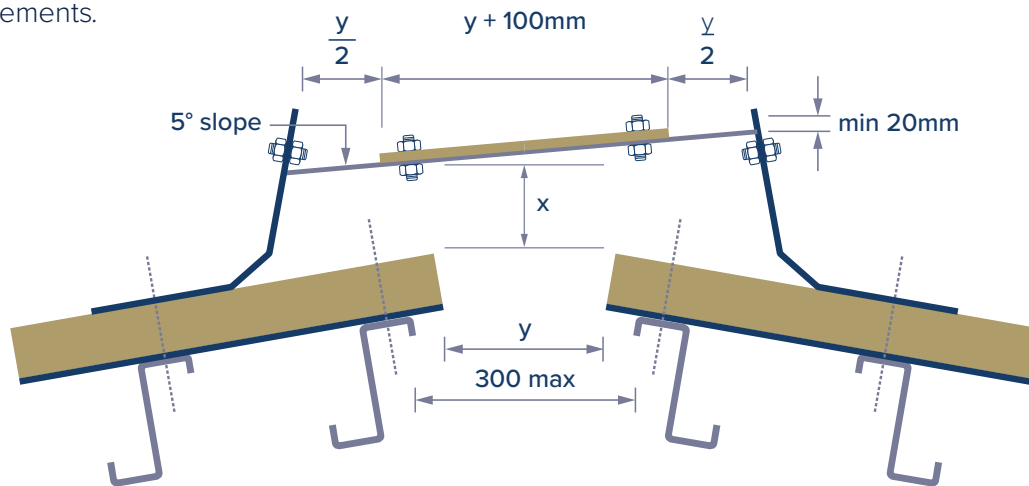


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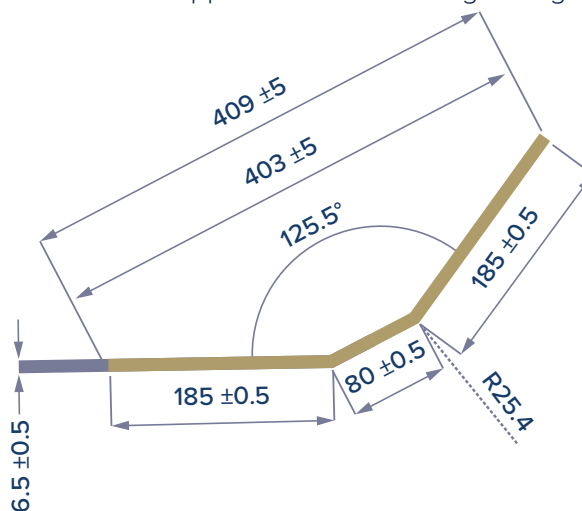
## RECOMMENDED FIXING PROCEDURE

The critical factor to efficient open protected ridge ventilation is the air gap. In accordance with HSG 33 guidance, the open ridge should have a maximum gap of 300mm, the ventilation gap labelled y should be calculated by the number of animals that will be housed in the building, to a maximum gap of 250mm. We recommend you seek the advice from our technical team to help calculate this for you. As the below diagram shows a secondary fixing point (purlin rail etc) may have to be used to comply with all EUROSIX installation requirements.



The open ridge is protected by a fibre cement weatherboard unit 300(W)x2400(L) bridged at 750mm centres by galvanised metal straps manufactured (By others) to suit the pitch of the roof/width of airgap etc. The straps are fixed at an angle of 5dg from the horizontal plane of the building and then bolted to the straps to form a protective cover. The cover must be positioned at least 20mm below the top of the upstands of the ridge pieces. Each unit is overlapped to the next along the right line of the roof approx 90mm.

Effective Length: 2200mm  
Weight (each): 11.0kg



\* All measurements are in millimeters unless stated otherwise