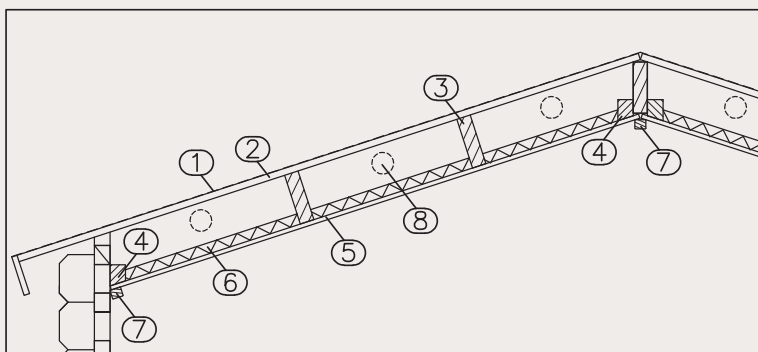


INSULATING GUIDE

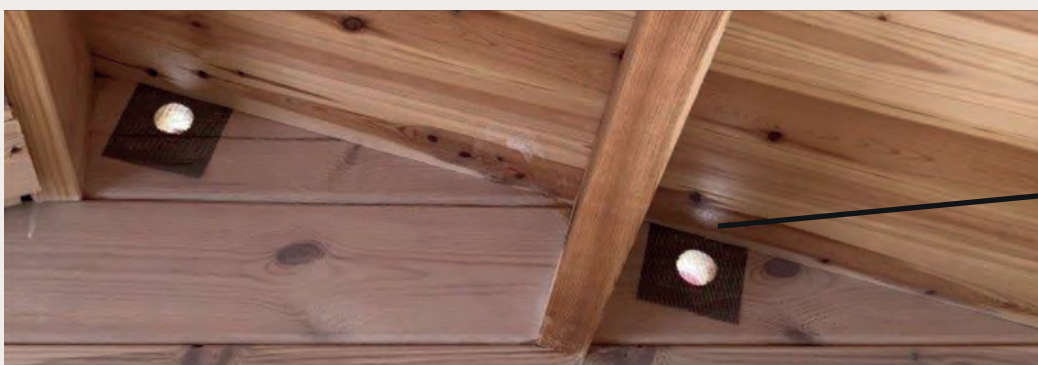


INSULATING THE ROOF OF A GABLE ROOFED COTTAGE

This is a general guide to insulating the roof of a gable roofed cottage. Cottage specific structure differences may occur. The guidance applies only to the insulation material supplied with this delivery. It is easiest to insulate the roof from above, when the cottage is being constructed and when roofing boards have not yet been installed. The support beams (4) for the ceiling panel are attached to the side walls and to the ceiling support on the gable. Ceiling panels (5) are installed by attaching them to the support beams and the roof support (3). Ceiling panels are supplied as running meters. The insulation sheets (6) are cut to size and installed on top of the ceiling panel. It is recommended to consult the insulating sheet manufacturer's installation instructions prior to installation (www.kingspan.fi). For best results, it is recommended to foam the seams and attachment points of the insulation boards according to the manufacturer's instructions. The ventilation between insulation and the roof boards should be ensured at both gable ends at about half a meter apart by making ventilation holes (8), with a minimum size of 8 x 8 cm or if circular with a diameter of 9 cm. It is advisable to cover the ventilation holes with a net or ventilation grilles, to prevent birds and other small animals from entering the space. The ceiling molding (7) is mounted on the seam between the ceiling panel and the wall and on the ridge joint between the panels.



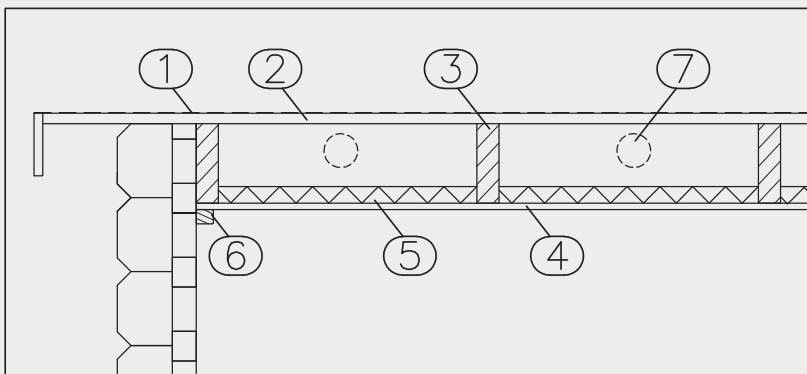
1. ROOF COVERING
2. ROOF BOARD
3. ROOF SUPPORT
4. CEILING PANEL SUPPORT BEAM
5. CEILING PANEL
6. INSULATION 30MM
7. CEILING MOLDING
8. VENTILATION HOLE



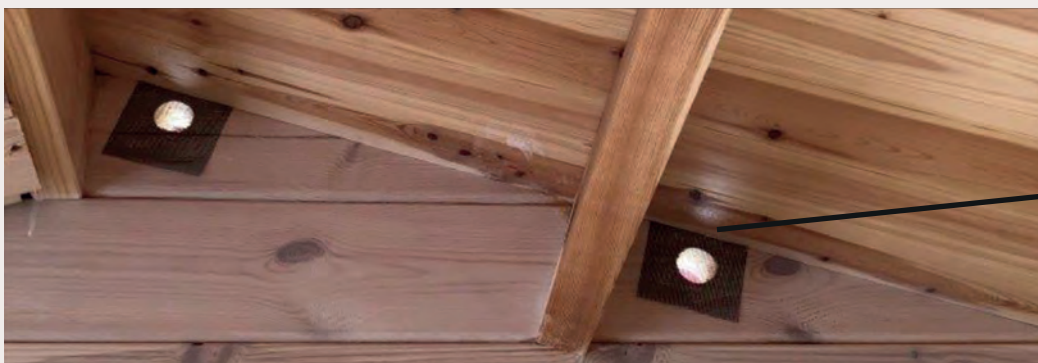
VENTILATION HOLE + NET

INSULATING THE ROOF OF A PENT ROOFED COTTAGE

This is a general guide to insulating the roof of a pent roofed cottage. Cottage specific structure differences may occur. The instructions apply only to the insulation material supplied with this delivery. It is easiest to insulate the roof from above when the cottage is being constructed and when roofing boards have not yet been installed. The ceiling panels (4) delivered in running meters. The insulation sheets (5) are cut to size and installed in the ceiling on top of the ceiling panel between the roof support beams. It is recommended to consult the insulating board manufacturer's installation instructions prior to installation (www.kingspan.fi). For best results, it is recommended to foam the seams and attachment points of the insulation sheets according to the manufacturer's instructions. Between the insulation and the roofing board, ventilation of the space must be ensured by ventilation holes at each end of the roof support (7), a minimum size of 8 x 8 cm or if circular, with diameter of 9 cm. It is advisable to cover the ventilation holes with a net or ventilation grilles, to prevent birds and other small animals from entering the space. Install the ceiling molding (6) on the joint between the ceiling panel and the wall.



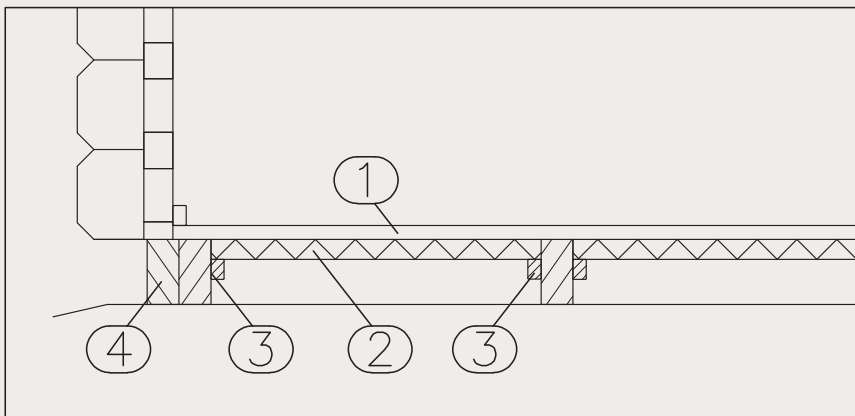
1. ROOF COVERING
2. ROOF BOARD
3. ROOF SUPPORT
4. CEILING PANEL
5. INSULATION 30 MM
6. CEILING MOLDING
7. VENTILATION HOLE



VENTILATION HOLE + NET

INSULATING THE FLOOR

This is a general guide to insulating the floor of a cottage. Cottage specific structure differences may occur. The guidance applies only to the insulation material supplied with this delivery. The under floor of the cottage must be insulated before installing the floorboards. The insulation supports (3) must be fastened to the foundation timber (4) so that the insulation space under the floorboards corresponds with the insulation thickness (30mm) (1). The insulation sheets (2) are cut to size and mounted on the support beams. It is recommended to consult the insulation sheet manufacturer's installation instructions prior to installation (www.kingspan.fi). For best results, it is recommended to foam the seams and attachment points of the insulating boards according to the insulation manufacturer's instructions.



1. FLOOR BOARD
2. INSULATION 30 MM
3. SUPPORT STRIP
4. FOUNDATION WOOD

