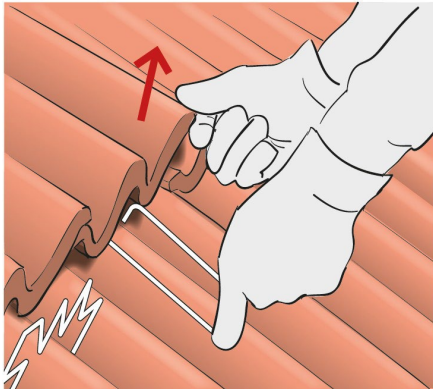
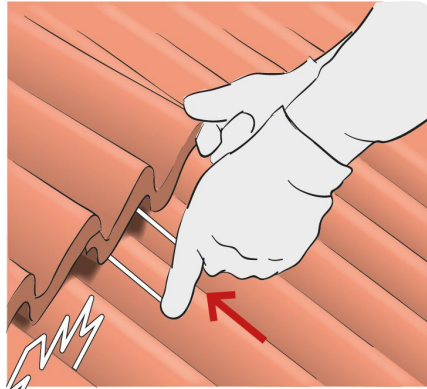




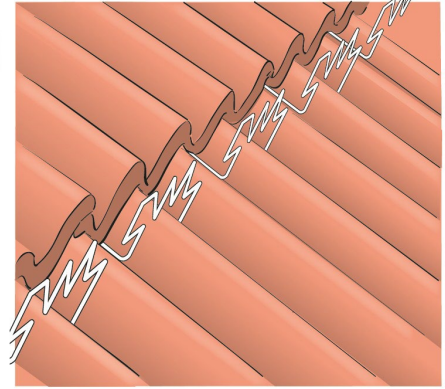
Installation of CWL Grapple



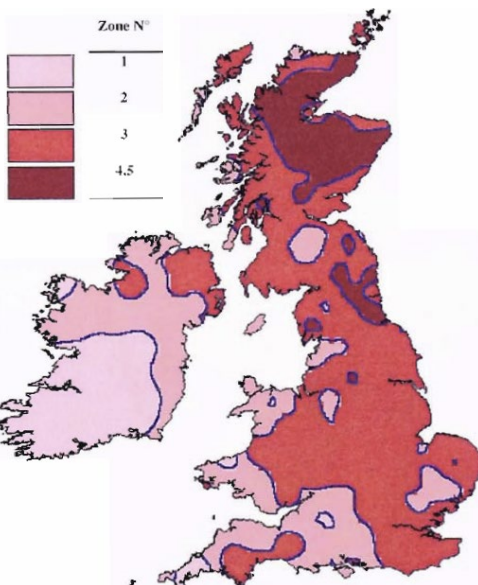
1. Lift a roofing tile.



2. Feed the grapple in so that it takes hold behind the edge of the roofing tile.



3. Put the roofing tile back in place.



Snowzone according to EN-1991-1-3.

Positioning of CWL Grapples

Install at least the number of CWL grapples as stated for the given roof pitch and snow zone.

Half of the CWL grapples must be installed on each roofing tile in rows from the foot of the roof and upward.

The remaining CWL grapples are spread evenly across the roof.

Always install CWL Grapples on every roofing tile nearest to the roof footing if there is no snow fence.

If the roof risks being overloaded with large quantities of snow, the snow must be removed in a safe manner.

Minimum number of CWL grapples/m² of roof

Pitch	Snow zone									
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
27° *	1.2	1.8	2.4	3.0	3.7	4.3	4.9	5.5	6.1	6.7
45° **	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2

* Standard roof pitch. single-storev house.

For the correct rating, look for information in your municipality/region about which snow zone and load (kN/m²) to which this is estimated to correspond according to Euro-Code 1991:1-3.