

# EAM

## Enterprise Asset Management for Minera Skifer - Oppdal, Offerdal and Otta

<b>Producer:</b>	Minera Skifer AS
<b>Product:</b>	Otta roofing.
<b>Dimensions:</b>	Standard dimension is square roofing 15"x15", 380x380 mm. Other dimensions with square shapes, rectangular or scallops can be offered on request.
<b>Fixing:</b>	The tiles are fitted with holes for fixing.
<b>Edges:</b>	Cut or sawn.
<b>Surfaces:</b>	Natural cleft, black or rust colored.



OTTA

### ROCK TYPES

The Otta phyllite is a metamorphic rock derived from mainly clayey deposits. Main minerals comprise quartz, feldspars and micas with minor minerals garnet and amphibole. There are also some trace iron oxides and sulphides to be found in the rock. Especially the sulphides are responsive to its environment, and will alter or rust, leaving a patina on both natural cleaved and machine worked surfaces.

### MAINTENANCE

Otta roofing normally needs no maintenance. The phyllite schist is frost resistant, resistant to acid rain and other environmental effects. When exposed to mechanical strain from ice and snow breakage can occur on single tiles and the damaged tiles must be replaced. We recommend periodic cleaning of gutters to secure a good drainage from the roof and to avoid ice from damaging the lower part of the roof.

Otta phyllite is delivered in black color. A minor part of the delivery can be rust colored. The rust color will gradually increase and the whole roof will eventually become rust colored.

Over long time moss and algae can occur, specially where there is shadow and under big trees. Moss and algae can be removed with high pressure water. The flushing with water must be in vertical direction of the roof. Chemical products for cleaning the roof can also be used. Manufacturers, dealers and Minera Skifer can advice.

### GUTTERS AND FITTINGS IN COMBINATION WITH OTTA PHYLLITE

The Otta phyllite contains smaller amounts of sulfides. Sulfides are generally responsive to their environment via alteration processes such as oxidation and hydratization. A side effect of the alteration of sulfides is a potential tarnish or corrosion on metals like zinc and copper. For fittings and the inside of the gutter, surface treatments like painting or corrosion inhibitors may be used to prolong service life. A horizontal mounting is recommended, as standing water in the gutter has a slowing effect.



### ROOF AND CHIMNEY:

The roof is the house's fifth and most important facade. Roofing tiles have a unique quality, are maintenance-free and beautiful and provide protection against weather and wind for generations. The beautiful play of colours and the unique differences in shade in the schist make these roofs a living and unique Norwegian building tradition. A schist roof reflects quality as well as a conscious attitude towards both quality and the environment.