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

Producer:	Minera Skifer AS
Product:	Slabs for paving of quartzite schist from Minera Skifer Oppdal and Offerdal and phyllite schist from Otta.
Dimensions:	All dimensions for purposes mentioned above.
Edges:	Sawn, broken, raw broken or natural edges.
Surfaces:	Natural cleft, brushed and antique brushed.



OTTA



OFFERDAL



OPPDAL

ROCK TYPES

The **Oppdal- and Offerdal quartzitic flagstones** are metamorphic rocks originated from sandstones. Their mineral content is dominated by quartz, feldspars and micas. The rocks are characterized by a plane parallel thin continuous foliation, a structure that enables the rock to be cleaved into slabs with a so called natural cleft surface.

The **Otta phyllite** is a metamorphic rock derived from mainly clayeous 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.

ESTABLISHING – FIRST TREATMENT

Concrete film from installation must be removed immediately after installation. Spillage of cement based products on the surface of the stone must be avoided. If concrete film or stubborn deposits is not removed with clean water within a day or two after installation, a concrete remover must be used. Cement based joints should be moistened with water before applying the cement remover. It is important to clean well with water when the process is finished. Follow instruction from manufacturer.

IMPREGNATION OF PAVING

A quartzite and a phyllite schist used for outside paving requires normally no protection or impregnation. Sand in joints that is removed by cleaning with water or by mechanical brushes must be replaced.

MAINTENANCE – REGULAR CLEANING

Outdoor paving can be cleaned with clean water. Contaminated water can miscolour a grey quartzite schist.

RECOMMENDED TOOLS AND MACHINES

Washing with brush and a water hose is sufficient in most cases. If using a high pressure cleaner, pay attention so that the surface is not damaged and try to avoid to remove sand or other materials from the joints.

WINTER MAINTENANCE

Snow can be removed with ordinary equipment designed for municipal snow plowing. The plow should be equipped with a synthetic cutting edge. Road salt and gravel can be used. Road salt has no negative influence on the quartzite or phyllite schist.

ALTERNATIVE PRODUCTS FOR PROTECTIVE TREATMENT, REGULAR CLEANING AND REMOVAL OF OIL AND GREASE STAINS

Outdoor paving can normally be cleaned with clean water. Indoor areas can be impregnated with products designed for natural stones. Most organic and vegetable oils can be removed with a oil and grease remover. Rust can be removed with a rust remover. As protective treatment a natural soap with a high content of fat, acrylic based or on the basis of silicone can be used. Manufacturers like Akemi, Steinfix, Fila and Surfapore have products suitable for natural stone. Manufacturers, dealers and Minera Skifer can advice.