

  
**MINERA**  
SKIFER

superior scandinavian surface

# PRODUCT MANUAL



[www.mineranorway.com](http://www.mineranorway.com)



Alta

**Alta Quartzite**

grey



Offerdal

**Offerdal Quartzite**

grey



Oppdal

**Oppdal Quartzite**

light and dark grey



Otta

**Otta Phyllit**

Pillarguri and Høgseter,  
rustcolor and dark  
grey/black

# Surface finish

## Natural riven:

A textured, natural finish both visually and to the touch. Achieved by splitting the stone along its cleave with a hammer and chisel.

## Honed:

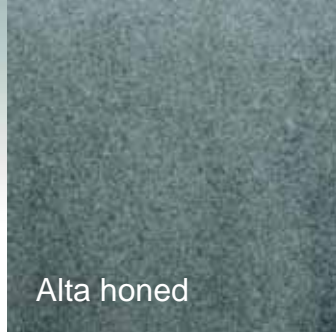
An extremely smooth, eggshell finish.

## Brushed:

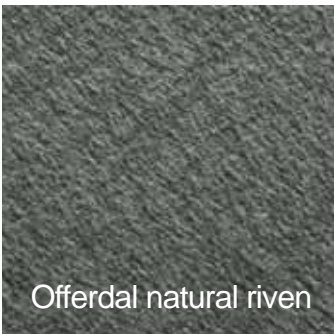
A fairly flat, uniform finish with subtle ripples and soft texture.



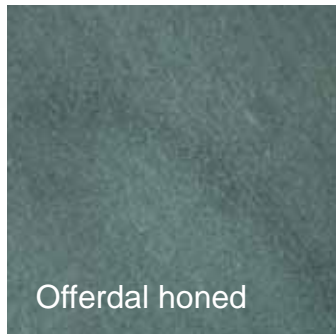
Alta natural riven



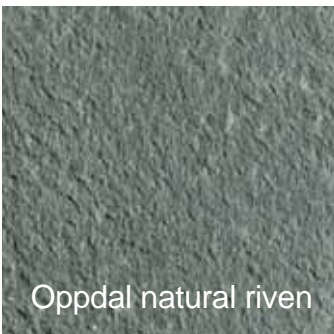
Alta honed



Offerdal natural riven



Offerdal honed



Oppdal natural riven



Oppdal brushed



Oppdal honed



Oppdal honed



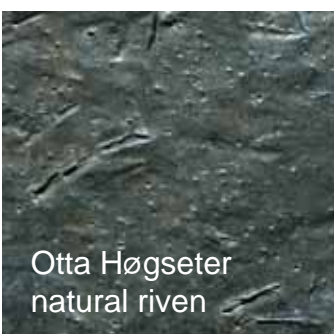
Otta Pillarguri natural riven



Otta Pillarguri brushed



Otta Pillarguri honed



Otta Høgseter natural riven



Otta Høgseter honed



Otta rust



Otta rust

# Edge formation



1

2

3

4

5

6

7

8

1. Oppdal natural edge

2. Otta snapped edge

3. 2 x Oppdal snapped edge

4. 2 x Oppdal raw-broken edge

5. 2 x Oppdal broken edge

6. Otta sawn edge

7. Oppdal sawn edge

8. Oppdal broken edge

# 1. Edges Alta- and Offerdal Quartzite

## 2. Edges Otta Phyllit



# Edges Oppdal Quartzite



# Tiles

## Applications:

- Interior floors and walls

Alta, Otta and Offerdal deliver tiles with sawn edge, Oppdal with broken or sawn edge.

Natural riven, honed or polished surfaces from Offerdal, Oppdal and Otta. Oppdal and Otta can also deliver with a brushed surface.

### Alta:

Length x width: 30x30, 20x40, 40x40, 25x50, 50x50, 30x60, 40x60 and 60x60 cm

Random lengths: 20-, 25-, 30-, 35- and 40 cm

### Oppdal:

Length x width: 30x30, 40x40, 30x60 and 40x60 cm

Random lengths: 20-, 25-, 30-, 35- and 40 cm

### Otta:

Length x width: 20x20, 30x30, 40x40, 30x60 and 40x60 cm

Random lengths: 15-, 20-, 25-, 30-, 35- and 40 cm

### Offerdal:

Length x width: 30x20, 30x60, 40x20 and 40x60 cm



**Alta Quartzite:** Tiles - natural riven surface.



**Otta Phyllit:** Tiles - honed surface



**Alta Quartzite:** Tiles - honed surface

# Stair treads

Applications:

- Interior and exterior stairs.

Delivered in random lengths and according to specifications

## Alta:

Standard widths: 30-, 32,5-, 35- and 40 cm  
Lengths: 80-120 cm / 120-150 cm / 150-180 cm  
Thickness: 20-30 and 30-40 mm  
Calibrated: 20, 25 and 30 mm  
Honed on request, max. width 60 cm

## Oppdal:

Standard widths: 30-, 32,5-, 35-, 40, and 50 cm  
Thickness: 20-40 mm  
Calibrated: 25 mm  
Honed and brushed on request.

## Otta:

Standard widths: 30- and 35 cm  
Thickness: 20-25, 25-30 and 30 -40 mm  
Calibrated: 20, 25 and 30 mm  
Honed: C220  
Thickness: 18, 25 and 30 mm

## Offerdal:

Standard widths: 30- and 35 cm  
Lengths: 75-100 and 100-150 cm  
Thickness: 25 and 30 mm



*Otta Phyllit: Stair treads and risers - natural riven surface.*



*Offerdal Quartzite: Stairs treads and risers - natural riven surface.*



# Fireplace slates

Applications:

- Fireplace surrounds



**Otta Phyllitt:** Fireplace slates - natural riven surface.

## Fireplace slates

Natural riven

### Alta:

According to specification

Thickness: 15-25 mm

Thickness when honed: 15-40 mm

### Oppdal:

According to specification

Thickness: 10-40 mm

### Otta:

According to specification

Thickness: 10-20 mm, 20-25 mm, 25-30 mm and 30-40 mm

Calibrated: 15, 20, 25 and 30 mm

### Offerdal:

According to specification.

Thickness: 20-30 mm

## Rough slabs / Two edged slates

Natural riven

### Alta:

Rustic carved or two edged plates under/over 1 sqm and under/over 1,8 mm

Thickness: 20-30 mm and 30-40 mm

### Oppdal:

Two edged/carved >0,6 sqm

Carved Thickness: 25-40 mm

Two edged Thickness 15-20 mm and 20-30 mm

### Otta:

Two sawn edges Thickness: 17-25 mm and 25-30 mm

### Offerdal:

Plates under/over 1 sqm

Thickness: 20-30 mm, 30-40 mm and 40-50 mm

## Windows / Risers/ Skirting board

Applications:

- Windowsills: Windows
- Risers: Stairs



**Oppdal Quartzite:** Windowsills and wall with Bricks/staved

### Windowsills / Risers

Natural riven, brushed or honed

#### Alta:

Random widths: 12-, 14-, 16-, 18 and 20 cm  
 Lengths from 60 cm  
 Thickness: 15-25 mm  
 Thickness when honed: 2-15 mm

#### Oppdal:

Random widths: 12,5-, 15-, 17,5-, 20-, 22,5 - and 25 cm  
 Lengths from 80 cm  
 Thickness: 15-25 and 25-40 mm  
 Riser heights from 12-20 cm  
 Thickness: 15-25 mm

#### Otta:

Riser heights from 12-18 cm  
 Thickness approx. 20 mm  
 Thickness when honed: 10 and 18 mm  
 Window boards on request



**Oppdal Quartzite:** Risers and stair treads - natural surface - broken edge.

Applications:

- Skirting board: Plinths

### Skirting board

Natural riven, brushed or honed

#### Alta:

Height: 6-12 cm  
 Thickness: +/-10 mm

#### Oppdal:

Height: 6-12 cm  
 Thickness: 10-15 mm  
 Calibrated: 10 mm when honed or brushed

#### Otta:

Height: 6-12 cm in random lengths  
 Thickness: Approx 10 mm  
 Honed and calibrated.  
 Thickness: 10 mm



**Otta Phyllit:** Skirting board and tiles - honed surface.

# Paving stone

Applications:

- Exterior paving
- Streets and market places
- Pathways
- Patios

# Garden stone

Application

- Garden paths



**Oppdal Quartzite:** Paving stone - natural riven surface.

## Paving stone Natural riven

### Alta:

Widths: 30-, 35-, 40-, 50-, and 60 cm. Random lengths.  
Material thickness: 20-30 mm, 30-40 mm and 40-60 mm

### Oppdal:

Widths: 30-, 40-, 50 and 60 cm. Random lengths.  
Material thickness: 30-40 mm, 40-60 mm and 60-80 mm

### Otta:

Widths: 15-40 cm. Random lengths.  
Material thickness: 25-40 mm, 40-60 mm and 60-80mm

### Offerdal:

Widths: 30-, 35- and 40 cm. Random lengths.  
Material thickness: 20-30 mm and 30-40 mm



**Alta Quartzite:** Paving stone - natural riven surface

## Garden stone Natural riven

### Alta:

Length x width: 40x40 and 40x60 cm  
Material thickness: 30-40 mm

### Oppdal:

Length x width: 40x40 and 40x60 cm  
Material thickness: 30-50 mm

### Otta:

Garden stones not available.

### Offerdal:

Length x width: 30x30, 35x35 40x40 cm  
Material thickness: 20-30 mm and 30-40 mm



**Oppdal Quartzite:** Garden stone - natural riven surface

# Crazy Paving

(irregular flagging)

Applications:

- Gardens
- Landscaping
- Patios
- Interior flooring



*Otta Phyllit: Crazy Paving (irregular flagging)*

## Crazy Pavement

Natural riven

### Minimum size:

- Alta:** Size: > 0,06 m<sup>2</sup>  
Thickness: 10-20 mm
- Oppdal:** Size: > 0.07 m<sup>2</sup>  
Thickness: 15-30 mm
- Otta:** Size: > 0,05 m<sup>2</sup>  
Thickness: 10-20 mm

### Medium size:

- Alta:** Size > 0,12 m<sup>2</sup>  
Thickness: 20-30 and 30-40 mm
- Oppdal:** Size: > 0,12 m<sup>2</sup>  
Thickness: 15-24, 25-39 and 40-59 mm
- Otta:** Size: > 0,12 m<sup>2</sup>  
Thickness: 25-40 mm

### Maximum size:

- Alta:** Size: > 0,50 m<sup>2</sup>  
Thickness: 18-35 mm
- Oppdal:** Size: > 0,50 m<sup>2</sup>  
Thickness: 15-30 and 30-49 mm
- Otta:** Size: > 0,5m<sup>2</sup>  
Thickness: 40-60 mm

### Garden stones:

- Offerdal:** Size: 3-8 stones/m<sup>2</sup>  
Thickness: 20-40 mm
- Size: 3-12 stones/m<sup>2</sup>  
Thickness: 10-20 mm

### Flagstones:

- Alta:** Size: > 0,12 m<sup>2</sup>  
Thickness: 8-12 mm
- Oppdal:** Size: 0,20 m<sup>2</sup>  
Thickness: 10-20 mm
- Otta:** Thickness: 9-17 and 18-26 mm
- Offerdal:** Size: 3-8 pl/m<sup>2</sup>  
Thickness: 10-20 and 20-27 mm

### Flagstones, calibrated (gauged)

- Alta:** Size: > 0,12 m<sup>2</sup>  
Thickness: 12 mm
- Otta:** Thickness: 15 mm
- Offerdal:** Thickness: 10 and 18 mm



*Oppdal Quartzite: Crazy Paving (irregular flagging).*



*Oppdal Quartzite: Crazy Paving (irregular flagging).*



*Alta Quartzite: Crazy Paving (irregular flagging).*

# Wall bricks

Applications:

- Facades
- Landscaping
- Chimneys
- Bracing walls



**Oppdal Quartzite:** Wall bricks/Dry walls, Coping, Massive tread and Stair treads

## Wall bricks / Dry walls

## Handstone

Variable thicknesses, widths and depths

Weight (sqm/ton)	Description	Alta	Oppdal	Otta	Offerdal
2,4-2,6	Natural riven, width/depth: 5-15 and 5-20 cm	*	*	*	*
2,0-2,2	Natural riiven, width/depth: 10-30 and 15-30 cm	*	*	*	*
2,4-2,6	Snapped/natural riven, width/depth: 5-20 cm		*		
2,0-2,2	Snapped/natural riven, width/depth: 10-30 cm		*		

## Wall bricks / Building blocks

## 

Natural riven (possible marks from cotter pins)

Weight (sqm/ton)	Description	Oppdal	Otta	Offerdal
1,0-1,2	Handstone/ small machine stone, width/depth: 25-45 cm	*	*	*
0,65-0,75	Machine stone width/depth: 40-60 cm	*		
0,35-0,45	Machine stone Width/depth: 60-110 cm	*		



**Oppdal Quartzite:** Wall bricks / Building blocks.



**Oppdal Quartzite:** Wall bricks.

# Coping

Applications:

- Coping of brick walls
- Coping of gatepost

## Coping

Natural riven

### Alta/Oppdal:

According to specification.

Thickness: 15-40 mm

### Otta:

Random lengths: 30- and 35 cm

Thickness: 20-25 mm, 25-30 mm and + 30 mm

### Offerdal:

According to specification



*Oppdal Quartzite: Coping and Wall bricks.*



*Oppdal Quartzite: Coping and Wall bricks.*



*Otta Phyllit: Coping and Wall bricks.*



*Offerdal Quartzite: Coping and Wall bricks/Dry walls*



*Otta Phyllit: Coping, tiles and stair treads - honed surface.*

## Bricks/staved

Broken edge

Only Oppdal Quartzite

Variable lengths and thicknesses. Measured in sqm  
without joints

25/40	2,5 cm width/depth - for gluing
25/40	2,5 cm " - corner stone
30/60	5-8 cm "
20/50	4-11 cm "
30/80	8-11 cm "
30/80	11 cm "



# Massive treads

Applications:

- Massive treads for gardens and landscapes
- Exterior stair treads for houses and cabins



**Oppdal Quartzite:** Massive treads- natural and sawn edge.

## Massive treads

Length/depths 50-80 cm

### Oppdal

130/170	Length 80-100 cm pr. slate
130/170	Length 100-120 cm pr. slate
130/170	Length 120-150 cm pr. slate
130/170	Length 150-180 cm pr. slate
130/170	Length > 180 cm
100/200	Different from standard

Natural edges

### Offerdal

According to specification. On request.



**Oppdal Quartzite:** Massive treads.

## Signs and monuments

On request.



**Oppdal Quartzite:** Massive treads, Wall bricks/Building blocks, Crazy Paving, Table and benches.



# Table top / underbody / benches

Natural riven



**Oppdal Quartzite:**  
Table top, underbody,  
benches and Wall bricks/  
Dry walls - broken edges

## Round tables with X-underbody:

### Alta:

Diameter: 70, 80, 90, 100, 110 and 120 cm  
Thickness: 20-40 mm

Sawn or snapped edge

### Oppdal:

Diameter: 70, 80, 90, 100, 110 and 120 cm  
Thickness: 20-40 mm

Sawn or snapped edge

### Otta:

Diameter: 70, 80, 90, 100, 110 and 120 cm  
Thickness: 20-30 mm

Sawn or snapped edge

### Offerdal:

No tables in the assortment.

## Rectangular tables with H-underbody:

### Alta:

Rectangular, rectangular with rounded corners.  
"Wilderness" benches and tables, carved edges.

### Oppdal:

Rectangular, rectangular with rounded corners.  
"Wilderness" benches and tables, carved edges.

### Otta:

According to specification.  
Thickness: 20-30 mm

## Roofing slates

Natural riven

## Chimney caps

Natural riven



**Alta Quartzite:** Roofing slates (regular) - snapped edge



**Oppdal Quartzite:** Chimney caps and Wall bricks.



**Alta Quartzite:** Roofing slates (regular) - snapped edge.



**Oppdal Quartzite:** Roofing slates (irregular)



**Otta Phyllit:** Roofing slates (regular) - snapped edge.

## Roofing slates

Natural riven

### Alta:

#### Scallop:

Format: 8"/14", 10"/16", 12"/18". Thickness: 8-18 mm

#### Rectangular slates:

Format: 13"/13", 15"/15", 18"/18", 21"/21", 24"/24". Thickness: 8-20 mm

### Otta:

#### Rectangular slates:

Format: 15"/15". Thickness: 9-16 mm

## Chimney caps

Natural riven

### Alta:

According to specification

Thickness: 30 mm

### Oppdal:

Standard format: 60x60, 65x60, 70x70, 75x75, 80x80, 80x120, 85x85, 90x90, 90x130 cm

Thickness: 20-40 mm

According to specification.

Thickness: 20-40 mm and 30-60 mm

### Otta:

According to specification

Thickness: Approx. 30 mm

### Offerdal:

According to specification

Thickness: 30-40 mm



## Curbstone

Curbstone  
Only Offerdal Quartzite

Thickness: 20-30/30-40 mm  
Width/height: 15 and 20 cm

*Alta Quartzite:*  
*Facade slates.*

*Offerdal Quartzite:*  
*Facade slates.*



## Facade

Facade slates

**Alta:**  
According to specification

**Otta:**  
According to specification

**Offerdal:**  
30-35-40 width in random lengths  
Max. length: 100 cm



*Otta Phyllit: Facade slates.*

**MINERA**  
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Minera Alta



Minera Oppdal



Minera Otta



Minera Offerdal





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