

Product datasheet

Offerdal quartzite schist

OFFERDAL QUARTZITE

LAND OF ORIGINE

Offerdal quartzite is a feldspar metasandstone quartzite. Geography: Finnsäter, north of Krokum in Offerdal in Sweden. All processing of all products is carried out by local stonemasons right next to the slate quarry.

TECHNICAL DATA

Feature	Standard	Value	Comment	Test institute / year
Petrography	NS-EN 12670	Quartzite schist		
Density	NS-EN 1936	2740 kg/m ³		RISE 2024
Water absorption	NS-EN 13755	0,1 weight%	Frost proof	RISE 2024
Flexural strength	NS-EN 12372	47,6 MPa	Mean value	RISE 2024
Abrasion resistance	NS-EN 14157 (A)	18.0 mm		SINTEF 2007
Slip resistance, natural	NS-EN 14231	SRV dry: 58, wet: 44	Mean value	RISE 2022
Slip resistance, honed C 220	NS-EN 14231	SRV dry: 58, wet: 19	Mean value	SINTEF 2012
Slip resistance, natural	DIN 51130	R11		TÜV 2015
Slip resistance, honed	DIN 51130	R9		TÜV 2014
Resistance to salt crystallization	DIN EN 12370:1999-06	100%	No influence	TÜV 2015
Resistance to sulfur dioxide	DIN EN 12326-2 pkt 14	100%	No influence	TÜV 2015
Resistance to chlorine	DIN EN 12326-2 pkt 14	100%	No influence	TÜV 2015
Resistance to aging by thermal shock	NS EN 14066	45,1 MPa	Change irt ref = 0,7%	RISE 2017

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

	kg CO ₂ -eq per m ²	Product Carbon Footprint - cradle to gate [A1-A3] *									
		Material thickness:									
		10mm	12mm	15mm	20mm	25mm	30mm	40mm	50mm	60mm	
Offerdal, sawn edge		1,33	1,60	2,00	2,66	3,33	3,99	5,32	6,66	7,99	

* Finished goods at factory: Skifferbrottet 2, 83598 Offerdal, Sweden

** kg CO₂-eq per m² = total amount of greenhouse gas emissions (CO₂) in kg based on 60 years of service life

MINERALOGY

Mineral	Standard	Value	Test institute / year
Quartz	NS EN 12407	39,0%	CBI 2015
Mica	NS EN 12407	42,0%	CBI 2015
Feltspar	NS EN 12407	8,0%	CBI 2015
Epidote	NS EN 12407	2,5%	CBI 2015
Calcite	NS EN 12407	0,1%	CBI 2015
Plagioclase	NS EN 12407	2,2%	CBI 2015
Zircon	NS EN 12407	0,2%	CBI 2015
Ilmenite	NS EN 12407	1,2%	CBI 2015