

# Optima Minerale

<b>Description</b>	High performance APAO modified bitumen membrane for roofing works. This product is designed as single layer in roofing systems for both new roofing works and refurbishment works.
<b>CE</b>	Single layer for roofing works according with EN13707. Layer for pitch roofs according with EN13859-
<b>Field of use</b>	Exposed not-accessible roofs and Technical roofs. Pitch roofs.
<b>Certifications and Agreements</b>	CE marking - FPC certificate number 1370-CPR-0042 . ITC Technical Agreement n°618
<b>Composition</b>	<p><b>Top Surface:</b> Mineral slate or Granules</p> <p><b>Back Surface:</b> Film / PP non-woven</p> <p><b>Reinforcement:</b> Polyester reinforced with fiber glass</p>
<b>Method of application</b>	Fully torch applied
<b>Dimension and packaging</b>	<p><b>Optima Minerale</b></p> <p>Thickness (mm)      4,0 on selvedge</p> <p>Weight (kg/m2)      5,2</p> <p>Rolls (m)              1X8</p>



Property	Test Method	Unit	Value	Tolerance
Lenght	EN 1848-1	m	8,0	-1%
Width	EN 1848-1	m	1,0	-1%
Thickness on selvedge	EN 1849-1	mm	4,0	±0,2
Weight	EN 1849-1	Kg/m2	5,2	±10%
Tensile strength at max	EN 12 311-1	L x T (N/50mm)	900/750	-20%
Elongation at max	EN 12 311-1 1999	L x T (%)	50/50	-15
Nail tearing resistance	EN 12 310-1	L x T (N)	200/200	-30%
Static load	EN 12 730	Kg	25	≥
Resistance to impact	EN 12691	mm	1250	≥
Joints Shear resistance	EN 12317-1	N / 50mm	700/700	-20%
Flexibility at low temperature	EN 1109	(°C)	-25	≤
Flow resistance at elevated temperature	EN 1110	(°C)	140	≥
Dimensional stability	EN 1107-1	%	±0,3	≤
Flexibility at low temperature after thermal ageing	EN1296 EN 1109	(°C)	140	-10
Flow resistance at elevated Temperature after thermal aeging	EN1296 EN 1110	(°C)	-25	+15
Long exposure ageing - UV radiations combined with heat and water	EN1297 EN1850-1	-	NPD	-
Watertightness	EN 1928-B	kPa	60	≥
Reaction to fire	EN 13501-1	-	E	-
External fire performance	EN 13501-5	-	Froof	-

### Storage

This product is packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources.

### Modifications

Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the updated technical data sheet, please contact our technical department.