




**GRANUMLUX**  
Granite Selection

## Properties of materials

*Granite Dark Yellow Corvaceira #3*

 <b>GRANUMLUX</b> Granite Selection	<h2 style="text-align: center;">Properties of materials</h2>	
<i>Granite Dark Yellow Corvaceira #3</i>		
<b>Macroscopic Description</b>	Granite of clear and homogeny yellow-brownish colour, of two micas, with granulated medium and light porfiróide trend.	
<b>Resistance mechanics to the compression</b>	1553 kg/cm <sup>2</sup>	152,3 MPa
<b>Waited minium value</b>	1463 kg/cm <sup>2</sup>	143,5 MPa
<b>Flexural Strength</b>	1856 kg/cm <sup>2</sup>	13 MPa
<b>Waited minium value</b>	121 kg/cm <sup>2</sup>	11,9 MPa
<b>Resistance mechanics to the flexion after gelivity test</b>	112 kg/cm <sup>2</sup>	10,9 MPa
<b>Waited minium value</b>	98 kg/cm <sup>2</sup>	9,6 MPa
<b>Apparent volumic mass</b>	2620 kg/cm <sup>2</sup>	
<b>Water absorption at normal atmospheric pressure</b>	0,4%	
<b>Open porosity</b>	1,1%	
<b>Resistance to the Capon consuming</b>	15,5 mm	
<b>Resistance to the shock</b>	105 cm	
<b>Frequancy of the longitudinal resonance</b>	7618 Hz	
<b>Resistance to the landslide</b>	61USRV	
<b>Resistance to the aging through thermal shock</b>	After having been submitted to the 20 cycles praised by the norm, the test tubes had not presented significant differences in the colour nor in its general aspect. The lost of mass was, in average 0,1%.	
<b>Petrography study</b>	Granite of two micas, with granulate average, yellowish coloration and fast profiróide trend. The texture is hipautomórfica to granular xenomorphic, in which the constituent crystals of the rock discloses subédricas morphologies to anedricas.	
<b>Resistance to Ice</b>	At the end of the 240 cycles of ice-thawing the test tubes had not disclosed sensible alterations in the colour nor in the structure. The decrease in the volume was not significant. The fast increment in the value oh the resistance to the flexion corroborates the not iced behaviour of the rock.	