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## DECLARATION OF PERFORMANCE CE

<b>MANUFACTURER:</b>		Fernando Almeida & Filhos, Lda		<b>TRADEMARK:</b>		FAFSTONE	
<b>HEADQUARTERS:</b>		Rua Barca da Seara, n.º 668, Magrelos, Marco de Canaveses					
<b>Evaluation of Regularity of Performance System</b>				<b>Product</b>			
System 4				Granite Blue Alpendurada			
<b>PRODUCT IDENTIFICATION PRODUCT</b>		<b>LAI</b>	<b>PAR</b>	<b>GUI</b>	<b>BL/PCMUR/PCESP</b>	<b>DGR/PCESP</b>	
<b>INTENDED USE</b>		Slabs for external paving	Setts for external paving	Kerbs for external paving	Plates for walls without anchoring	Plates for floors and steps	
<b>HARMONIZED STANDARDS</b>		EN 1341:2012	EN 1342:2012 CLASS 0	EN 1343:2012	EN 1469:2015	EN 12058:2015	
<b>CHARACTERISTICS TO BE DECLARED</b>		<b>DECLARED PERFORMANCE</b>					
<b>Petrographic Description</b>	<b>Macroscopic Description</b>	Leucocratic Rock, with a gray tone, containing scattered dark nodules and silver platelets. Holocrystalline and massive sample with granular, phaneritic, fine- and medium-grained texture with some centimeter-sized phenocrysts, without orientation. No lineations, fissures, pores or cavities, as well as any type of apparent alteration. No orientation, foliation, schistosity or apparent tectonic deformation.					
	<b>Microscopic Description</b>	Acidic rock of intrusive igneous origin, from the granitoid group, composed of non-equidimensional grains of quartz, feldspars and micas. Holocrystalline, phaneritic, non-equigranular, medium to coarse grained texture, with some phenocrysts, hypidiomorphic tendency. Does not provide guidance.					
<b>Flexural Resistance:</b>	Medium Value	10.2 MPa			10.2 MPa		
	Minimum expected Value	8 MPa			8 MPa		
	Standard-Deviation	1.1 MPa			1.1 MPa		
<b>Flexural Resistance (after ice/defrost test) (56 cycles)</b>		9.8 MPa			9.8 MPa		
<b>Slip Resistance</b>	<b>Dry Conditions</b>	70 USRV					70 USRV
	<b>Humid Conditions</b>	64 USRV					64 USRV
<b>Resistance to abrasion</b>		17 mm					17 mm
<b>Compressive Resistance</b>	Medium Value		182 MPa				
	Minimum expected Value		156 MPa				
	Standard-Deviation		13 MPa				
<b>Compressive Resistance (after ice/defrost test) (56 Cycles)</b>			182/171 MPa				
<b>Fire Performance</b>					Classe A1		
<b>Resistance Anchors</b>					DND		DND
<b>Thermal Shock Resistance</b>					$\Delta\rho$ – Open Porosity Variation: -0.6% $\Delta v$ – Ultrasonic Pulse Velocity variation: -3.2% $\Delta F$ – Flexural Resistance Variation: -1.5%		
<b>Water Vapor Permeability</b>					DND		
<b>Bulk Density</b>					2660 Kg/m <sup>3</sup>		
<b>Water absorption at atmospheric pressure</b>					0,2 % (PTN)		
<b>Capillary Water Absorption (DND are Open Porosity &lt;1%)</b>					DND		DND
<b>Open Porosity</b>					0,5%		
<b>Tactility</b>							DND

DND – No Performance Determined – Requirement for which tests were not performed, for it is not required.

The performance of the above-identified product complies the set of declared performances. This declaration of performance is issued in accordance with Regulation (UE) N° 305/2011, under the sole responsibility of the manufacturer identified above.

  
Catarina Martins, Eng.ª  
Marco de Canaveses, 03 of October of 2023