



DECLARATION OF PERFORMANCE (DoP)

QUARTZ SPHERICAL BCS																																																																																																																										
1. Unique identification code of the product type:	Note - the "batch" is identified by the date shown on the PACKAGING and/or DDT. This DoP is valid for batches produced from the date of issue of this DoP until the next one (downloadable from the website).																																																																																																																									
2. Intended uses:	Aggregate for concrete (EN 12620) and not-structural mortars (EN 13139).																																																																																																																									
3. Manufacturer:	VALLI GRANULATI srl Tel: + 39 035 940249 Fax: + 39 035 943256 via Selva, 20 – 24060 ZANDOBBIO (BG) www.valligranulati.it info@valligranulati.it																																																																																																																									
4. Agent:	not applied (DoPs and technical documentation are kept by the manufacturer).																																																																																																																									
5. Systems for the Evaluation and Verification of Consistency of Performance:	<table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td style="text-align: center;">System 4</td></tr> <tr><td style="text-align: center;">UNI EN 12620:2008</td></tr> </table> <table border="1" style="display: inline-table;"> <tr><td style="text-align: center;">System 4</td></tr> <tr><td style="text-align: center;">UNI EN 13139:2003</td></tr> </table>	System 4	UNI EN 12620:2008	System 4	UNI EN 13139:2003																																																																																																																					
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6a. Harmonized Standards:																																																																																																																										
Notified control bodies:	not applicable (not provided for by the regulations for "Systems 4")																																																																																																																									
6b. European Technical Assessment:	not applicable (there are "harmonised technical standards" for these products).																																																																																																																									
7. Declared performance:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 20%;">commercial name :</td> <td colspan="4" style="text-align: center;">type of aggregate: natural (<i>non-marine, non-industrial, non-recycled</i>) as per point 3 of the Arm Standards.</td> </tr> <tr> <td style="text-align: center;">413 0.06/0.2 mm RKB2</td> <td style="text-align: center;">320 0.1/0.3 mm</td> <td style="text-align: center;">260 0.3/0.8 mm</td> <td style="text-align: center;">685 0.7/1.2 mm</td> </tr> <tr> <td>Granulometric designation</td> <td style="text-align: center;">0/1</td> <td style="text-align: center;">0/1</td> <td style="text-align: center;">0/1</td> <td style="text-align: center;">0/2</td> </tr> <tr> <td>Category</td> <td style="text-align: center;">Gf85</td> <td style="text-align: center;">Gf85</td> <td style="text-align: center;">Gf85</td> <td style="text-align: center;">Gf85</td> </tr> <tr> <td>Shape of the granules</td> <td colspan="4" style="text-align: center;">NPD</td> </tr> <tr> <td>Density of granules</td> <td style="text-align: center;">≥2,5</td> <td style="text-align: center;">≥2,5</td> <td style="text-align: center;">≥2,5</td> <td style="text-align: center;">≥2,5</td> </tr> <tr> <td>Water absorption</td> <td colspan="4" style="text-align: center;"><1%</td> </tr> <tr> <td rowspan="2">Cleaning</td> <td>Content of purposes</td> <td style="text-align: center;">f3</td> <td style="text-align: center;">f3</td> <td style="text-align: center;">f3</td> </tr> <tr> <td>Quality of purposes</td> <td style="text-align: center;">< 3%</td> <td style="text-align: center;">< 3%</td> <td style="text-align: center;">< 3%</td> </tr> <tr> <td rowspan="4">Content</td> <td>Chlorides</td> <td colspan="3" style="text-align: center;"><0.003%</td> </tr> <tr> <td>Soluble sulphates</td> <td colspan="3" style="text-align: center;">< 0.80 %</td> </tr> <tr> <td>Total Sulfur</td> <td colspan="3" style="text-align: center;">< 0.50 %</td> </tr> <tr> <td>Carbonate</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td rowspan="3">Speed of grip</td> <td>Humic substance</td> <td colspan="3" style="text-align: center;">absent</td> </tr> <tr> <td>Fulvic acid</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Organic contaminants</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Finished up</td> <td>Impur. Organ.light</td> <td colspan="3" style="text-align: center;">< 0.05 %</td> </tr> <tr> <td rowspan="3">Subst. Danger.</td> <td>Radioactive, heavy metals</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Polyaromatic Carbides</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Other substances</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td rowspan="2">Durability</td> <td>to the freezing/thawing</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>alkali-silica reaction</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td rowspan="5"></td> <td>Fragment (Los Angeles)</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Wear (Micro Deval)</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Smoothness</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Abrasion</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> <tr> <td>Abras. from studded tires</td> <td colspan="3" style="text-align: center;">NPD</td> </tr> </table>	commercial name :	type of aggregate: natural (<i>non-marine, non-industrial, non-recycled</i>) as per point 3 of the Arm Standards.				413 0.06/0.2 mm RKB2	320 0.1/0.3 mm	260 0.3/0.8 mm	685 0.7/1.2 mm	Granulometric designation	0/1	0/1	0/1	0/2	Category	Gf85	Gf85	Gf85	Gf85	Shape of the granules	NPD				Density of granules	≥2,5	≥2,5	≥2,5	≥2,5	Water absorption	<1%				Cleaning	Content of purposes	f3	f3	f3	Quality of purposes	< 3%	< 3%	< 3%	Content	Chlorides	<0.003%			Soluble sulphates	< 0.80 %			Total Sulfur	< 0.50 %			Carbonate	NPD			Speed of grip	Humic substance	absent			Fulvic acid	NPD			Organic contaminants	NPD			Finished up	Impur. Organ.light	< 0.05 %			Subst. Danger.	Radioactive, heavy metals	NPD			Polyaromatic Carbides	NPD			Other substances	NPD			Durability	to the freezing/thawing	NPD			alkali-silica reaction	NPD				Fragment (Los Angeles)	NPD			Wear (Micro Deval)	NPD			Smoothness	NPD			Abrasion	NPD			Abras. from studded tires	NPD		
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<p>NPD = no performance determined (the characteristic is not subject to prescription requirements for the intended use) Irrelevant performances : shell content (aggreg. of marine origin), volume stability and fire loss (aggreg. of industrial origin)</p>																																																																																																																										
8. Appropriate and/or specific technical documentation:	the "simplified procedures" do not apply (art. 36, 37 and 38, CPR 3052011).																																																																																																																									
<p>The performance of the product identified above is in conformity with the set of declared performances. This declaration of liability is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.</p>																																																																																																																										
<p>Signed for and on behalf of the manufacturer by: (Costantino Valli, legal representative)</p> <p style="text-align: right;"><i>Costantino VALLI</i> Costantino Valli</p>																																																																																																																										
Place and date of issue: Zandobbio (BG), 10/17/2017																																																																																																																										