

Declaration of Performance CE

N-20241018ESARCE

Aggregates and breakwaters

REFERENCES

Limestone:

Tranco recuperado escollera hma 3000/6000
Tranco recuperado zahorra 0/32
Tranco reciclado 10-60
Tranco recuperado 10-60
Tranco recuperado caliza <200
Tranco recuperado piedra < 800
Cobdar recuperado caliza <200
Cobdar recuperado piedra < 800

DOLOMITE:

Tranco recuperado escollera hma 3000/6000
Tranco recuperado zahorra 0/32
Tranco recuperado dolomia < 200
Cobdar recuperado dolomia < 200

All the data collected in this document are based on tests carried out in independent external laboratories.

Name and address of manufacturer

Company: Cosentino Industrial, S.A.U.

Address: Carretera A-334, km 59, 04850 Cantoria (Almeria) - Spain

**TECHNICAL
CONTENT**

REV. 00 - 11/2024

EN 13383-1:2003/AC:2004 & EN 932-1:1997.

Intended use: aggregates and breakwaters for maritime works and breakwaters for other uses.

System for evaluation and verification of the constancy of performance: 2+.

Conformity: According to standard EN 13383-1:2003/AC:2004 y EN 932-1:1997.

Notified body: CEMOSA (No. 1377)

Aggregates File: O/2403618/11

Breakwaters File: O/2403618/11

Breakwaters (UNE EN 13383-2:2003 APDO 4)

Description	Test	Class	Performance
Compressive strength	EN 1926:2007	Mean value (MPa)	44,1 MPa
		Standard deviation (MPa)	7,582 MPa
		Coefficient of variation (%)	17,175 %
		Variance	57,483
Stability against MgSO4 solutions	EN 1367-2:2010	Loss percentage (%)	6,2 %
Granulometric analysis	EN 13383-2:2003	Classification: R/W >3(%)	1,2 %
Shape of particles	EN 13383-2:2003	>9000 kg	98,5
		6000-9000 kg	70,3
		3000-6000 kg	7,2
		2000-3000 kg	2,5

Aggregates/Arids (EN 932-1:1997)

Description	Test	Class	Performance																						
Granulometric analysis	EN 933-1:2012	d/D	0/40																						
		-	<table border="1"> <thead> <tr> <th>Sieve (mm)</th> <th>0/40 (15366)</th> </tr> </thead> <tbody> <tr><td>50</td><td>100,0</td></tr> <tr><td>40</td><td>96,9</td></tr> <tr><td>32</td><td>93,6</td></tr> <tr><td>20</td><td>78,8</td></tr> <tr><td>12,5</td><td>65,1</td></tr> <tr><td>8</td><td>52,5</td></tr> <tr><td>4</td><td>38,4</td></tr> <tr><td>2</td><td>30,8</td></tr> <tr><td>0,5</td><td>22,0</td></tr> <tr><td>0,25</td><td>18,0</td></tr> <tr><td>0,063</td><td>10,9</td></tr> </tbody> </table>	Sieve (mm)	0/40 (15366)	50	100,0	40	96,9	32	93,6	20	78,8	12,5	65,1	8	52,5	4	38,4	2	30,8	0,5	22,0	0,25	18,0
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Sulfur compounds, S, (aggregates)	EN 1744-1:2010+A1:2013	%	0,2																						
Fragmentation resistance. Los Angeles wear (aggregates)	EN 1097-2:2021	“Los Angeles” coefficient	<table border="1"> <thead> <tr> <th colspan="2">FRACTION (UNE)</th> <th rowspan="2">COEFFICIENT DE LOS ANGELES</th> </tr> <tr> <th>PASS (mm)</th> <th>RETAINS (mm)</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>12,5</td> <td rowspan="2">36</td> </tr> <tr> <td>12,5</td> <td>10</td> </tr> </tbody> </table>	FRACTION (UNE)		COEFFICIENT DE LOS ANGELES	PASS (mm)	RETAINS (mm)	14	12,5	36	12,5	10												
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Aggregates/Arids (EN 932-1:1997)

Description	Test	Class	Performance																													
Sand equivalent (aggregates)	E EN 933-8:2012 + A1:2015 / 1M:2016	SE4	44																													
Slabs Index (aggregates)	EN 933-3:2012	Slab index	29																													
Content of crushed particles (aggregates)	EN 933-5:2023	Fracture faces	<table border="1"><thead><tr><th colspan="3">FRACTION (UNE)</th><th colspan="4">PARTICLES GROUP (%)</th></tr><tr><th>PASS (mm)</th><th>RETAINS (mm)</th><th>MASS (g)</th><th>C_C</th><th>C_{IC}</th><th>C_R</th><th>C_{IR}</th></tr></thead><tbody><tr><td>12</td><td>6</td><td>400,0</td><td>100</td><td>100</td><td>0</td><td>0</td></tr><tr><td colspan="3">TOTAL:</td><td>400,0</td><td>100</td><td>100</td><td>0</td><td>0</td></tr></tbody></table>	FRACTION (UNE)			PARTICLES GROUP (%)				PASS (mm)	RETAINS (mm)	MASS (g)	C _C	C _{IC}	C _R	C _{IR}	12	6	400,0	100	100	0	0	TOTAL:			400,0	100	100	0	0
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PASS (mm)	RETAINS (mm)	MASS (g)	C _C	C _{IC}	C _R	C _{IR}																										
12	6	400,0	100	100	0	0																										
TOTAL:			400,0	100	100	0	0																									
Organic contaminants: humic (aggregates)	EN 1744-1:2010+A1:2013	-	Clearer than the pattern dissolution																													

The performance of the product identified above is in conformity with the set of declared performance/s.

This Declaration of Performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed by and in representation of the manufacturer by:



Valentín Tijeras
VP Global Product, R&D and Quality

Place and date of issue:
Cantoria, 11/2024