

Marble and Granite Testing Laboratory

Test Certificate*

Issue Date: 13/6/2015

Commercial name of the sample: Triesta (Sinai Pearl)
Report No.: 9/2015
No. of pages: 19
Sample delivery date: 23/3/2015

(*It should be known that:

- 1- These tests were carried out conforming with the specifications of ISO/IEC/17025 according to the requirement of the EN standards.
- 2- These tests were carried out on items derived to the laboratory by the customer.
- 3- This test results may not be reproduced, except with a prior written application from the customer and acceptance from the quality manager of the laboratory.

MARBLE AND GRANITE TESTING LAB.

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Customer code: HM
Report No.: 9/2015

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The applied tests, specifications, number of used samples and their dimensions:

| | Specification name | Specification No. | Dimensions in cm Length x Width x Height | No. of samples |
|----|---|-------------------|---|--|
| 1 | Petrographic examination | BS EN 12407 | Slide: 10 X 2 X 0.3 | 2 samples in two perpendicular planes |
| 2 | Determination of water absorption at atmospheric pressure | BS EN 13755 | Cube: 5 x 5 x 5 | 6 samples |
| 3 | Determination of compressive strength | EN 1926 : 1999 | Cube: 5 x 5 x 5 | 6 samples |
| 4 | Flexural strength under concentrated load | BS EN 12372 | Slab: 6 x 12 x 36 | 10 samples |
| 5 | Flexural strength under constant moment | BS EN 13161 | Slab: 6 x 12 x 36 | 10 samples |
| 6 | Resistance to abrasion | BS EN 1341 | Slab: 10 x 7 x 3 | 6 samples |
| 7 | Determination of real density and apparent density and of total and open porosity | EN 1936 | Cube: 5 x 5 x 5 | 6 samples |
| | | | Cube: 3 x 3 x 3 | 6 samples |
| 8 | Determination of breaking load at dowel hole | BS EN 13364 | Tile: 20 x 20 x 3 | 10 samples |
| 9 | Determination of Knoop microhardness | BS EN 14205 | Slide: 2 x 3 x 1 | 3 samples |
| 10 | Determination of linear thermal expansion coefficient | BS EN 14581 | Slab: 20 x 5 x 2 | 6 samples |
| 11 | Determination of slip resistance by means of the pendulum tester | EN 14231 | Slab: 13.6 x 8.6 x 2 | 6 samples (finished surface as required) |
| 12 | Determination of resistance to aging by thermal shock | BS EN14066 | Slab: 20 x 20 x 2 | 10 samples |
| 13 | Resistance to freeze and thaw (default 48 cycle) | BS EN 12371 | Slab: 6 x 12 x 36 | 10 samples |

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Petrographic examination EN12407:2000:

| | | |
|---|------------------|---------------------------------------|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: |
| | 23/3/2015 | |
| Name of the analyst: Dr. Mariem El-Hefnawi | | Test beginning date: 31/3/2015 |

1- Macroscopic

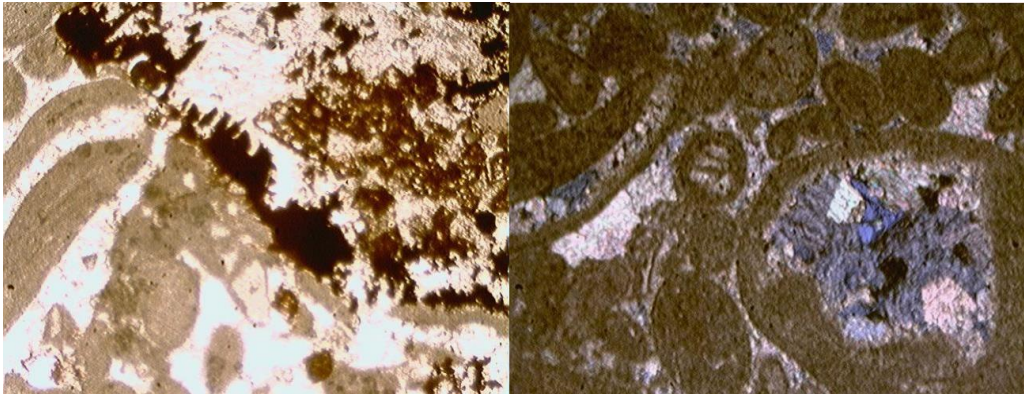
description: Colour:

Beige

Features: Marble with dens content of fine to coarse sized scattered fossils.

2- Microscopic description:

The rock is composed of packed different sized pellets and scattered foraminifera cemented by microsparite with few patches of iron oxides.



Photomicrographs showing pellets of varying sizes cemented by sparite. Iron oxide patches are also shown. X = 40

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Determination of water absorption at atmospheric pressure
EN 13755:2002:

Report No. **9/2015**

Sample Type: **Marble**

Customer code **HM**

Colour of the Sample: **Beige**

Sample Code **T/ HM**

Sample delivery date:

23/3/2015

Name of the analyst: **Dr. Osama Mashaly**

Test beginning date: **1/4/2015**

| Sample Code | Water absorption (%) |
|-------------------|----------------------|
| GEM/T/WA/1 | 0.34 |
| GEM/T/WA/2 | 0.45 |
| GEM/T/WA/3 | 0.25 |
| GEM/T/WA/4 | 0.39 |
| GEM/T/WA/5 | 0.28 |
| GEM/T/WA/6 | 0.34 |
| Mean Value | 0.34 |

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Determination of compressive strength EN1926:1999:

Report No. 9/2015

Sample Type: Marble

Customer code HM

Colour of the Sample: Beige

Sample Code T/ HM

Sample delivery date:

23/3/2015

Name of the analyst: Dr. Basel Shalaby

Test beginning date: 7/4/2015

| Sample Code | Compressive strength (Mpa) |
|-------------------|----------------------------|
| GEM/T/ CS/1 | 101.79 |
| GEM/T/ CS/2 | 117.40 |
| GEM/T/ CS/3 | 99.86 |
| GEM/T/ CS/4 | 162.01 |
| GEM/T/ CS/5 | 188.60 |
| GEM/T/ CS/6 | 126.73 |
| Mean Value | 132.73 |

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Determination of flexural strength under concentrated load EN 12372:1999:

| | | |
|---|------------------|--------------------------------------|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: |
| | 23/3/2015 | |
| Name of the analyst: Dr. Osama Mashaly | | Test beginning date: 7/4/2015 |

| Sample Code | Flexural strength (MPa) |
|--------------------|--------------------------------|
| GEM/T/ FCCL/1 | 17.87 |
| GEM/T/ FCCL/2 | 17.76 |
| GEM/T/ FCCL/3 | 15.24 |
| GEM/T/ FCCL/4 | 16.70 |
| GEM/T/ FCCL/5 | 15.80 |
| GEM/T/ FCCL/6 | 14.15 |
| GEM/T/ FCCL/7 | 16.90 |
| GEM/T/ FCCL/8 | 18.27 |
| GEM/T/ FCCL/9 | 19.85 |
| GEM/T/ FCCL/10 | 16.91 |
| Mean Value | 16.95 |

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Determination of flexural strength under Constant moment EN 13161:1999:

| | | |
|---|------------------|--------------------------------------|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: |
| | 23/3/2015 | |
| Name of the analyst: Dr. Basel Shalaby | | Test beginning date: 7/4/2015 |

| Sample Code | Flexural strength (MPa) |
|--------------------|--------------------------------|
| GEM/T/ FCCM/1 | 11.23 |
| GEM/T/ FCCM/2 | 10.82 |
| GEM/T/ FCCM/3 | 15.58 |
| GEM/T/4 FCCM/ | 13.50 |
| GEM/T/ FCCM/5 | 11.21 |
| GEM/T/ FCCM/6 | 11.45 |
| GEM/T/ FCCM/7 | 14.34 |
| GEM/T/8 FCCM/ | 13.87 |
| GEM/T/ FCCM/9 | 13.23 |
| GEM/T/ FCCM/10 | 13.32 |
| Mean Value | 12.86 |

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Determination of resistance to abrasion EN14157:2004:

| | | | |
|-----------------------------|--------------------------|------------------------------|------------------|
| Report No. | 9/2015 | Sample Type: | Marble |
| Customer code | HM | Colour of the Sample: | Beige |
| Sample Code | T/ HM | Sample delivery date: | 23/3/2015 |
| Name of the analyst: | Dr. Basel Shalaby | Test beginning date: | 7/4/2015 |

| Sample Code | Abrasion resistance (mm) |
|--------------------|---------------------------------|
| GEM/T/Ab/1 | 24.52 |
| GEM/T/Ab/2 | 26.26 |
| GEM/T/Ab/3 | 25.84 |
| GEM/T/Ab/4 | 24.37 |
| GEM/T/Ab/5 | 24.78 |
| GEM/T/Ab/6 | 25.09 |
| Mean | 25.14 |

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Determination of apparent density, EN1936:1999:

| | | |
|---|---------------|--|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: 23/3/2015 |
| Name of the analyst: Dr. Osama Mashaly | | Test beginning date: 7/4/2015 |

| Sample Code | Apparent density (gm/cm³) |
|--------------------|---|
| GEM/T/AD/1 | 2.62 |
| GEM/T/AD/2 | 2.63 |
| GEM/T/AD/3 | 2.67 |
| GEM/T/AD/4 | 2.61 |
| GEM/T/AD/5 | 2.63 |
| GEM/T/AD/6 | 2.62 |
| Mean Value | 2.63 |

Determination of Real density, EN1936:1999:

| | | |
|---|---------------|--|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: 23/3/2015 |
| Name of the analyst: Dr. Basel Shalaby | | Test beginning date: 7/4/2015 |

| Sample Code | Real density (gm/cm³) |
|--------------------|---|
| GEM/T/RD/1 | 2.64 |
| GEM/T/RD/2 | 2.64 |
| GEM/T/RD/3 | 2.63 |
| GEM/T/RD/4 | 2.62 |
| GEM/T/RD/5 | 2.65 |
| GEM/T/RD/6 | 2.64 |
| Mean Value | 2.64 |

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Determination of Total porosity, EN1936:1999:

| | | |
|--|--------|---------------------------------|
| Report No. | 9/2015 | Sample Type: Marble |
| Customer code | HM | Colour of the Sample: Beige |
| Sample Code | T/ HM | Sample delivery date: 23/3/2015 |
| Name of the analyst: Dr. Basel Shalaby | | Test beginning date: 7/4/2015 |

| Sample Code | Total porosity (%) |
|-------------|--------------------|
| GEM/T/TP/1 | 1.68 |
| GEM/T/TP/2 | 1.66 |
| GEM/T/TP/3 | 1.92 |
| GEM/T/TP/4 | 2.04 |
| GEM/T/TP/5 | 1.49 |
| GEM/T/TP/6 | 1.64 |
| Mean Value | 1.74 |

Determination of breaking load at dowel hole, EN13364:

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Report No. 9/2015

Sample Type: Marble

Customer code HM


Colour of the Sample: Beige

Sample Code T/HM

Sample delivery date: 23/3/2015

Name of the analyst: Dr. Osama Mashaly

Test beginning date: 7/4/2015

| | Breaking load (N) |  | | |
|--|-------------------|--|---------------------|---------------------|
| | | d (mm) | d ₁ (mm) | b _A (mm) |
| GEM/T/DH/1 | 550.00 | 30.00 | 11.18 | 33.23 |
| | 520.00 | 30.00 | 9.19 | 51.26 |
| | 500.00 | 30.00 | 10.45 | 19.99 |
| | 450.00 | 30.00 | 11.58 | 33.64 |
| GEM/T/DH/2 | 460.00 | 30.00 | 10.62 | 22.67 |
| | 530.00 | 30.00 | 11.24 | 33.37 |
| | 540.00 | 30.00 | 9.35 | 49.56 |
| | 450.00 | 30.00 | 11.61 | 33.43 |
| GEM/T/DH/3 | 500.00 | 30.00 | 11.36 | 33.53 |
| | 510.00 | 30.00 | 11.45 | 33.91 |
| | 520.00 | 30.00 | 9.38 | 49.65 |
| | 460.00 | 30.00 | 10.25 | 21.48 |
| GEM/T/DH/4 | 460.00 | 30.00 | 9.95 | 49.14 |
| | 520.00 | 30.00 | 11.81 | 33.71 |
| | 540.00 | 30.00 | 11.73 | 33.68 |
| | 460.00 | 30.00 | 10.47 | 22.17 |
| GEM/T/DH/5 | 440.00 | 30.00 | 11.26 | 33.49 |
| | 490.00 | 30.00 | 9.97 | 50.11 |
| | 490.00 | 30.00 | 10.52 | 20.15 |
| | 560.00 | 30.00 | 11.32 | 33.84 |
| GEM/T/DH/6 | 500.00 | 30.00 | 10.55 | 21.18 |
| | 540.00 | 30.00 | 11.96 | 34.15 |
| | 520.00 | 30.00 | 11.24 | 33.78 |
| | 500.00 | 30.00 | 10.07 | 46.89 |
| Mean | 499.50 | 30.00 | 10.81 | 34.49 |
| St.Dev. | 35.32 | 0.00 | 0.82 | 10.24 |
| Corr.Var. | 0.07 | 0.00 | 0.08 | 0.30 |
| Lower expected value for confidence level 75% (N) | | | | 408.84 |

Determination of Knoop Hardness, EN 14205

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Report No. 9/2015

Customer code HM

Sample Code T/ HM

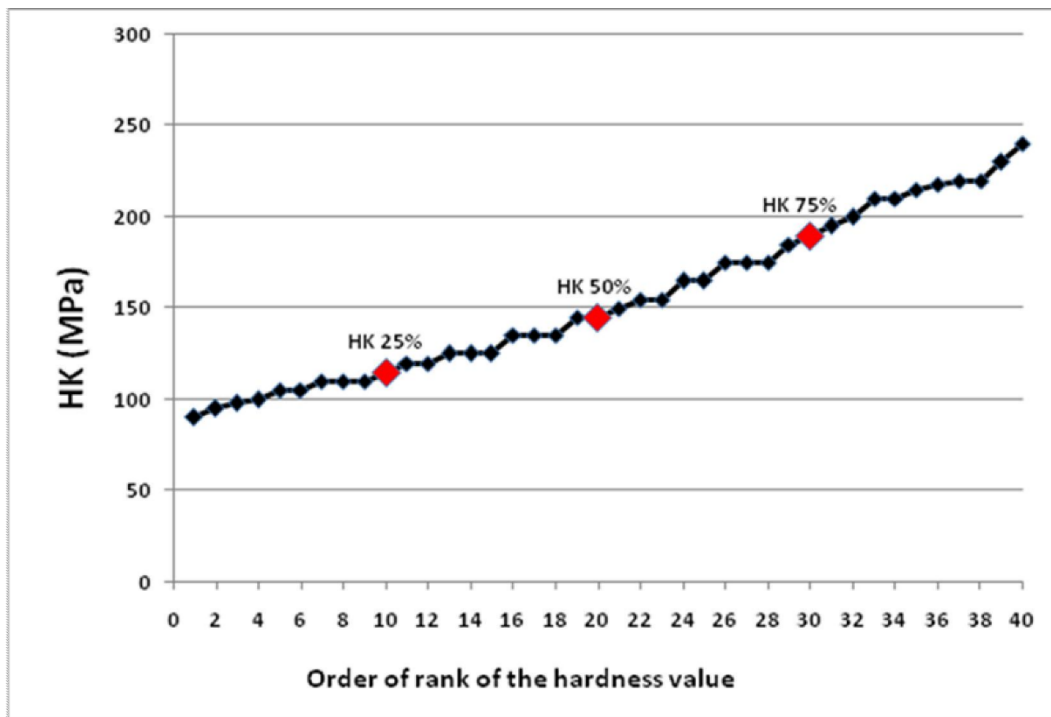
Name of the analyst: Dr. Basel Shalaby

Sample Type: Marble

Colour of the Sample: Beige

Sample delivery date: 23/3/2015

Test beginning date: 7/4/2015



| | |
|---------|---------|
| HK 25 % | 115 MPa |
| HK 50 % | 145 MPa |
| HK 75 % | 190 MPa |

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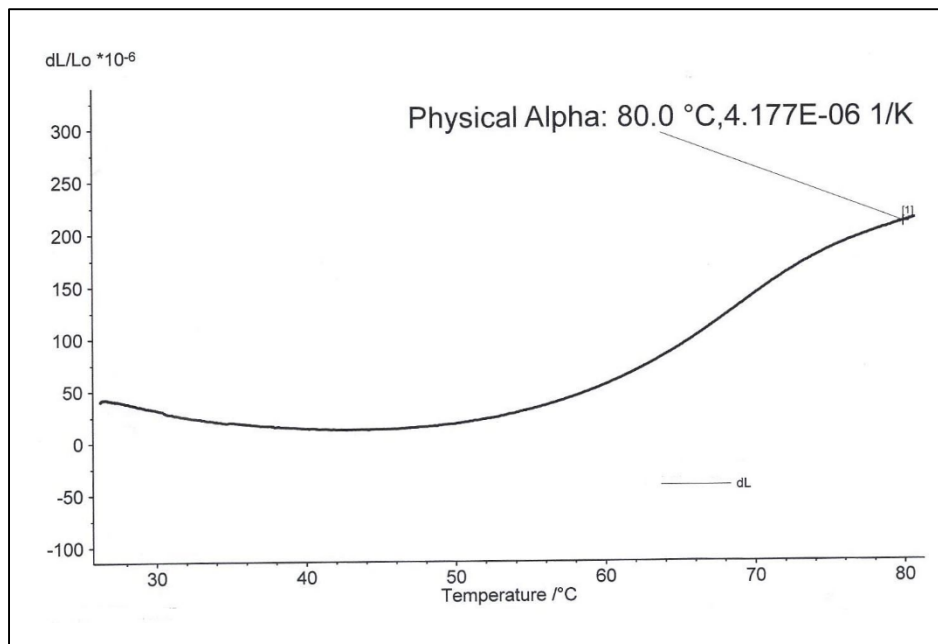
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Determination of linear thermal expansion coefficient, EN14581:

| | | | |
|-----------------------------|--------------------------|------------------------------|------------------|
| Report No. | 9/2015 | Sample Type: | Marble |
| Customer code | HM | Colour of the Sample: | Beige |
| Sample Code | T/ HM | Sample delivery date: | 23/3/2015 |
| Name of the analyst: | Dr. Osama Mashaly | Test beginning date: | 7/4/2015 |



The linear thermal expansion coefficient: $\alpha = 4.177 \times 10^{-6}$

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Determination of slip resistance by means of the pendulum tester, EN 14231:

| | | | |
|-----------------------------|--------------------------|------------------------------|------------------|
| Report No. | 9/2015 | Sample Type: | Marble |
| Customer code | HM | Colour of the Sample: | Beige |
| Sample Code | T/ HM | Sample delivery date: | 23/3/2015 |
| Name of the analyst: | Dr. Basel Shalaby | Test beginning date: | 7/4/2015 |

The test is carried out on polished surface.

| | Slip resistance Value (SRV) |
|-----|-----------------------------|
| Dry | 82.33 |
| Wet | 24.00 |

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Determination of resistance to aging by thermal shock, EN14066:

| | | | |
|-----------------------------|--------------------------|------------------------------|------------------|
| Report No. | 9/2015 | Sample Type: | Marble |
| Customer code | HM | Colour of the Sample: | Beige |
| Sample Code | T/ HM | Sample delivery date: | 23/3/2015 |
| Name of the analyst: | Dr. Osama Mashaly | Test beginning date: | 7/4/2015 |

| | Weight before 20 cycles of thermal shock (gm) | Weight after 20 cycles of thermal shock (gm) | Change in weight (%) |
|-------------|---|--|----------------------|
| GEM/T/TS/01 | 2233.48 | 2220.75 | - 0.57 |
| GEM/T/TS/02 | 2184.64 | 2179.18 | - 0.25 |
| GEM/T/TS/03 | 2189.53 | 2185.59 | - 0.18 |
| GEM/T/TS/04 | 2215.74 | 2197.13 | - 0.84 |
| GEM/T/TS/05 | 2169.74 | 2154.99 | - 0.68 |
| GEM/T/TS/06 | 2187.37 | 2182.34 | - 0.23 |
| Mean | 2196.75 | 2186.66 | - 0.46 |

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Determination of resistance to Freeze and thaw, EN12371: (referring to variation in flexural strength under concentrated load EN 12372: 1999):

| | | | |
|-----------------------------|--------------------------|------------------------------|------------------|
| Report No. | 9/2015 | Sample Type: | Marble |
| Customer code | HM | Colour of the Sample: | Beige |
| Sample Code | T/ HM | Sample delivery date: | 23/3/2015 |
| Name of the analyst: | Dr. Osama Mashaly | Test beginning date: | 7/4/2015 |

| Sample Code | Flexural strength (MPa) (after 48 freeze and thaw cycles) |
|--------------------|--|
| GEM/T/ FT/FCCL/1 | 16.07 |
| GEM/T/FT/ FCCL/2 | 15.96 |
| GEM/T/ FT/FCCL/3 | 13.65 |
| GEM/T/FT/ FCCL/4 | 14.42 |
| GEM/T/ FT/FCCL/5 | 13.14 |
| GEM/T/ FT/FCCL/6 | 12.46 |
| GEM/T/ FT/FCCL/7 | 14.34 |
| GEM/T/FT/FCCL/8 | 15.69 |
| GEM/T/FT/ FCCL/9 | 17.63 |
| GEM/T/FT/ FCCL/10 | 14.26 |
| Mean Value | 14.76 |

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Summary of Results:

| Test Name | Mean Value | Unit |
|--|---|--------------------------|
| Petrographic examination | Rock Name : Pellisparite | |
| Determination of water absorption at atmospheric pressure | 0.34 | % |
| Determination of compressive strength | 132.73 | MPa |
| Flexural strength under concentrated load | 16.95 | MPa |
| Flexural strength under constant moment | 12.86 | MPa |
| Resistance to abrasion | 25.14 | mm |
| Determination of apparent density | 2.63 | gm/cm³ |
| Determination of real density | 2.64 | gm/cm³ |
| Determination of total porosity | 1.74 | % |
| Determination of breaking load at dowel hole; Lower expected value for confidence level 75% | 408.84 | N |
| Determination of Knoop hardness | HK 25 % | 115 |
| | HK 50 % | 145 |
| | HK 75 % | 190 |
| Determination of linear thermal expansion coefficient | $\alpha = 4.177 \times 10^{-6}$ | |
| Determination of slip resistance by means of the pendulum tester (SRV) | Dry | Wet |
| | 82.33 | 24 |
| Determination of resistance to aging by thermal shock | - 0.46 | % |
| Resistance to freeze and thaw (default 48 cycle), (referring to variation in flexural strength under concentrated load) | 14.76 | MPa |

Signatures:

Technical manager

Quality manager

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