

Designplan : B&B



# AIRCORAL®



**ANTIBACTERIAL**  
ability to complete elimination of bacteria from surface



**PHOTOCATALYTIC**  
degradation ability harmful agents tested with method UNI 11259



**DEGRADES POLLUTANTS**  
17 ppm less n-hexane in the air

- |   |  |  |  |
|---|--|--|--|
| <p><b>NO EXPANSION</b><br/>absence of cracks in the installation</p>                                |  |  | <p><b>PAINTABLE</b><br/>customization</p>  |
| <p><b>THERMAL RESISTANCE</b><br/>large choice of light sources</p>                                  |  |  | <p><b>DUST REPULSIVE</b><br/>no maintenance necessary</p>                                |
| <p><b>LOWEST THERMIC CONDUCTIBILITY</b><br/>application in accessible areas</p>                     |  |  | <p><b>WHITE SATINY SURFACE</b><br/>touch comfortable, velvet effect</p>                  |
| <p><b>NOT FLAMMABLE</b><br/>absence of toxic smokes</p>   |  |  | <p><b>NOT TOXIC</b><br/>application in hospitals or in bio-architecture</p>              |
| <p><b>HIGH RESISTANCE TO TEMPERATURE SHOCKS</b><br/>installation in multiple purpose conditions</p> |  |  | <p><b>ANTI-ALLERGIC</b><br/>application in hospitals or in bio-architecture</p>          |
| <p><b>HARDNESS</b><br/>high cut hardness</p>  |  |  | <p><b>ABSENCE OF CHEMICAL REACTIVITY</b> use in public surroundings (hospitals, spa)</p> |
| <p><b>UV RESISTANT</b><br/>permanent</p>  |  |  |  |

# designplan

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## PRODUCT TESTING SERVICE

100 Clemson Research Blvd. ☐ Anderson, SC 29625 ☐ Tel (864) 646-TILE ☐ Fax (864) 646-2821

March 9, 2011

Buzzi & Buzzi  
Via Milano 17  
20060 Pozzo D'adda (MI)  
Italy

Dear Buzzi & Buzzi:

As per your request, Tile Council of North America is pleased to provide you with the following summary of test results from the testing services you contracted from our Product Performance Laboratory previously issued in test report number TCNA-362-10 on material you provided and designated "AIRCORAL."

- ❖ Test results generated from performing test method ISO 27447 (*Test method for antibacterial activity on semiconducting photocatalytic materials*) showed that in all of the samples tested, there was no survival of bacteria after eight hours in either UV-irradiated or dark test conditions. Ref.: Report number TCNA-362-10, October 21, 2010.
- ❖ Based on test results using test method UNI 11259 (*Determination of photocatalytic activity of hydraulic binders, Rhodamine B method*), the samples tested showed evidence of the ability to degrade organic pollutants. Ref.: Report number TCNA-362-10, November 18, 2010.
- ❖ In closed chamber studies, n-hexane was degraded from an initial concentration by 17.4 ppm in the presence of a test sample versus only 7.6 ppm concentration decrease for a generic wall tile. Ref.: Report number TCNA-362-10, January 18, 2011.

If you have any further questions or require any further clarification on the test methodologies, please do not hesitate to contact us. It has been a pleasure to work with you on this project. On behalf of our staff, we thank you for the opportunity to provide these testing services to you.

Sincerely,

Jyothi Rangineni, PhD

Research Scientist

Testing Services: [testing@tileusa.com](mailto:testing@tileusa.com) ☐ Literature Orders: [literature@tileusa.com](mailto:literature@tileusa.com) ☐ Web Site: [www.tileusa.com](http://www.tileusa.com)  
This report is confidential and has been prepared for the exclusive use of the client. It is not an endorsement, approval, certification, or criticism of any product by TCNA. This report shall not be published in any form without prior written consent from TCNA.

Every product made with **AirCoral®** is accompanied by a "PRODUCT TESTING SERVICE" certificate provided by the Tile Council of North America.

Every product made with **AirCoral®** is identified by a marking with a special aluminum plate.