

# FINISHES AND COLORS



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# ACCELERATED AGING RESISTANCE TEST

## COLOUR STABILITY

Colour stability has been tested in compliance with accelerated weathering tests (UNI EN ISO 4892-2:2009 and UNI EN ISO 2105-A02:1996); the result of the test is expressed by assigning a numerical value to colour variation according to the international greyscale, which is a useful method to measure colors differences.

## PURPOSE OF THE TEST

Resistance to accelerated aging on Woodn profiles according to UNI norms EN ISO 4892-2:2009 and EN 20105-A02:1996.

| sample | color              | Greyscale degree* after 3600h of exposure against original samples | Greyscale degree** after 3600h of exposure compared to samples aged for 1200 h |
|--------|--------------------|--|--|
| 1      | Bianco Carrara     | 3  | 4/5  |
| 2      | Lagorai            | 3  | 4/5  |
| 9      | Cuba               | 3/4  | 4/5  |
| 10     | Caffè Bogotà       | 4  | 4  |
| 13     | Myanmar            | 4  | 4  |
| 14     | Grigio Silverstone | 4  | 4/5  |
| 28     | Grigio Londra      | 3  | 4/5  |
| 33     | Beige Sahara       | 3/4  | 5  |

(\*) The international greyscale goes from Grade 1 (maximum colour difference) to Grade 5 (minimum colour difference).

## COLOUR

In the first months after the installation, the composite wood profiles are subject to a gradual change from the starting color, due to the occurrence of two phenomena. The surface yellowing is due to oxidation of the lignin contained in the wood fibers after exposure to UV rays, this phenomenon has a transient nature. The disappearance of the yellowish hue occurs within a few months after exposure to the elements and can be accelerated by performing frequent washing with plain water. The wood fiber also naturally tends to lighten. This process – slowed down with respect to what happens to wood because of the presence of the plastic component and of special additives – is influenced by the environmental conditions of the exposure. After the settling-in period, the tone achieved remains almost unchanged over time.

Like any other composite wood product, WoodN and Greenwood profiles may be subject to variations in color and surface finish from one production batch to another, and may indeed occur, although in lesser degree, even within the same production batch. It is therefore recommended, in order to reduce the differences naturally inherent in the natural component of the product and generated by the manual brushing process, to buy all the boards needed for installation in one lot, and extra boards at the same time in case of future repairs or replacements.

## THERMAL PROPERTIES

Like any other building material, also Greenwood is heated by solar radiation, leading to surface temperatures that depend on the colour of the board and the intensity of the radiation itself.

# FINISHES AND COLORS GREENWOOD

## Solarium (for Indoor and Outdoor applications)

14S Bianco



12S Miele



21S Tabacco



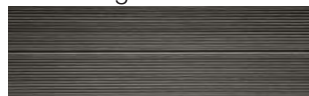
23S Terra di Siena



31S Ebano



32S Wengè



16S Taupe



33S Aubergine



10S Caffè Bogotà

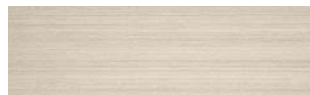


13S Myanmar



## Loft (for Indoor and Outdoor applications)

14L Bianco



12L Miele



21L Tabacco



23L Terra di Siena



31L Ebano



32L Wengè



16L Taupe



33L Aubergine



10L Caffè Bogotà



13L Myanmar



Colors and textures shown are purely indicative. Check every time a real sample for approval.  
Considering the presence of natural wood fibers, colors may vary from batch to batch.

# SRI (Solar Reflectance Index)

The SRI index is a value that is attributed to some building materials and takes into account both the material's ability to reflect solar radiation and the ability to emit solar radiation absorbed as thermal radiation.

## PURPOSE OF THE TEST

The steady-state temperature "Ts" and solar reflection index "SRI" were determined in accordance with standard ASTM E1980 - 11 (Approach 1) for three convective coefficients (rate of heat transfer) "h<sub>c</sub>":

- h<sub>c</sub> = 5 W/(m<sup>2</sup> \* K) corresponding to low-wind conditions (0 to 2 m/s);
- h<sub>c</sub> = 12 W/(m<sup>2</sup> \* K) corresponding to medium-wind conditions (2 to 6 m/s);
- h<sub>c</sub> = 30 W/(m<sup>2</sup> \* K) corresponding to high-wind conditions (6 to 10 m/s);

| sample                   | Solar reflection index SRI               |   |   |
|--------------------------|--|---|---|
|                          | h <sub>c</sub> = 5 W/(m <sup>2</sup> *K) | h <sub>c</sub> = 12 W/(m <sup>2</sup> *K) | h <sub>c</sub> = 30 W/(m <sup>2</sup> *K) |
| Greendeck Bianco Loft    | 82,4                                     | 82,5                                      | 82,5                                      |
| Greendeck Miele Loft     | 32,6                                     | 32,4                                      | 32,1                                      |
| Greendeck Miele Solarium | 16,4                                     | 15,7                                      | 14,9                                      |
| Greendeck Taupe Loft     | 35,9                                     | 36,5                                      | 36,7                                      |
| Woodn Beige Sahara       | 36,6                                     | 36,9                                      | 36,9                                      |
| Woodn Sinai              | 47,9                                     | 48,0                                      | 47,8                                      |

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