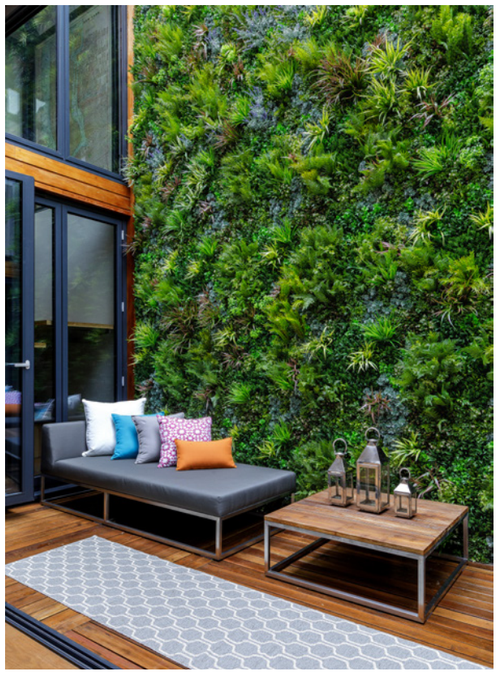
# UV RATINGS



VISTAFOLIA®
ARTIFICIAL GREEN WALLS



## VG UV RATINGS

VG UV+

The majority of artificial plants on the global market are made from PE (polyethylene). PE on its own is susceptible to degradation from UV light. We add UV stabilising additives directly into the master batch to slow the molecular break down of the polymers. These absorb the UV rays and protect the colour and structure of each plant.

**Our foliage is tested in xenon arc chambers for 3000 hours (equivalent to 3 years) at Mediterranean irradiance levels.** These accelerated test chambers mimic the ultraviolet light levels found around the globe and test the ability of our foliage to not fade or become brittle.

**The test results refer back to the grey scale which is a visual test of changes in colour or hue of the material.** "Grey scale consists of pairs of standard grey chips representing progressive differences in lightness or contrast – zero or no difference for grade 5 to maximum difference for grade 1. It is generally used for evaluating changes in the colour of textiles while carrying out colour-fastness tests."

## TEST RESULT:

Here at Vistagreen we test and retest to ensure the combination of UV tolerant additives is correct and **our foliage remains at 4-5 on the grey scale after 3000hrs.**

Box 1: The Grey Scale is used for determining changes in colour

This scale consists of five pairs of non-glossy grey colour chips, which illustrate the perceived colour differences corresponding to the ratings

| Key to Grey Scale | |
|---|---|
| Rating 5 | No change in appearance |
| Rating 4 | Slight change in appearance |
| Rating 3 | Moderate change in appearance |
| Rating 2 | Marked change in appearance |
| Rating 1 | Very marked change in appearance |

# FIRE CLASSIFICATION



VISTAFOLIA®
ARTIFICIAL GREEN WALLS

## REACTION TO FIRE CLASSIFICATION

At VistaFolia we pride ourselves not only on the realism of our foliage but also the research and development of stronger safer materials. **We now boast a market-leading fire classification that meets the high demands set in the building industry regarding fire safety.**

VistaFolia's range of foliage is tested as per the criteria set out in **EN ISO 13501-1:2007 +A1:2009** Fire classification of construction products and building elements. Not only is our foliage tested to prove its fire retardancy but also for its smoke output.

## TESTING METHODS

The methods that the Vistagreen range is tested to are:

- **EN 13823:2010+A1** Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
- **ISO 11925-2:2010** Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

## TEST RESULT AND CLASSIFICATION: B—s1,d0

| Fire behaviour | | Smoke production | | | Flaming droplets | |
|---|---|---|---|---|---|---|
| B | — | s | 1 | , | d | 0 |

| Class | Test method(s) | Classification criteria | Additional classification |
|---|---|---|---|
| B | EN 13823 and | FIGRA ≤ 120 W/s and LFS < edge of specimen and $THR_{600s} \leq 7{,}5MJ$ | Smoke production[f] and Flaming droplets/particles[g] |
| | EN ISO 11925-2[i]: Exposure=30s | Fs ≤ 150mm within 60s | |

These tests measure the flame spread and propagation of a fire and measures the smoke levels released during a test.

This allows our clients peace of mind, safe in the knowledge that our product will meet the demands of the increasingly stringent requirements of the fire safety industry.