

Living Walls

Fire Retardancy Performance rating



Scotscape's Fytotextile™ Living Wall system

Delivers performance rating class 0 (National Class) and Euroclass B-s2d0

01 Living Wall fire performance guidelines

A review of the current guideline documents available has been generated by the Department for Communities and Local Government Paper (copyright 2013) to ensure safe building practices in the retro-greening market regarding the fire rating compliance of green roofs and living walls. These guidelines outline the fire retardancy requirements for the installation of Living Walls on buildings.

The full report can be read by clicking the link below:
<https://www.gov.uk/government/publications/fire-performance-of-green-roofs-and-walls>

Scotscape Living Wall Fire Testing

02 In March 2017, the Scotscape Fytotextile™ Living Wall system was Tested with the method UNE-EN ISO 11925-2:2011 and UNE-EN 13823:2012+A1:2016, and classified compliance with the procedures provided in Standard UNE-EN 13501-1:2007+A1:2010: "Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests".

This test has delivered a performance rating to Euroclass B-s2,d0, that is equivalent to Class 0 (National Class), according to the National Test Standard BS476: Part 6 and BS 476: Part 7

Euroclass EN 13501-1		UK (England, Wales, N.I.) BS 476/6, BS476/7	
A1		A1	Non-combustibility
A2	s1/s2/c3, d0/d1/d2	A2	Limited combustibility
B	s1/s2/s3, d0/d1/d2	B	Class 0
C	s1/s2/s3, d0/d1/d2	C	Class 1
D	s1/s2/s3, d0/d1/d2	D	Class 3

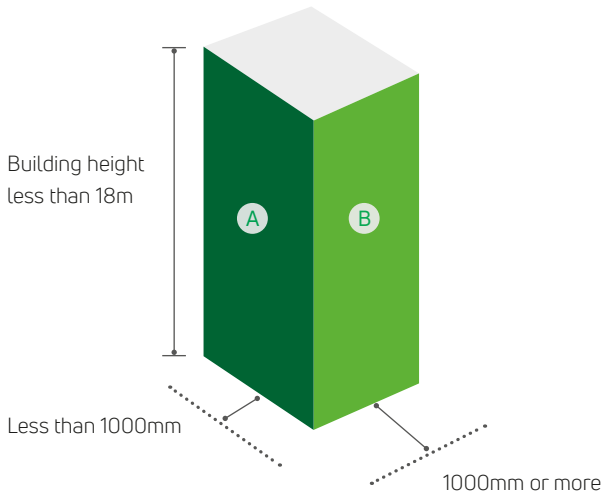
CLASSIFICATIONS

Euroclass	Classification for smoke or
A1 Non-combustible	S1 No smoke
A2 Limited combustibility	S2 Limited smoke production and smoke increase
B Very difficult to ignite	S3 No limitation on smoke production required
C Moderately flammable	
D Flammable	d0 No droplets
E Highly flammable	d1 No droplets for longer than certain time given
F Extremely flammable	d2 No limitation on droplets required

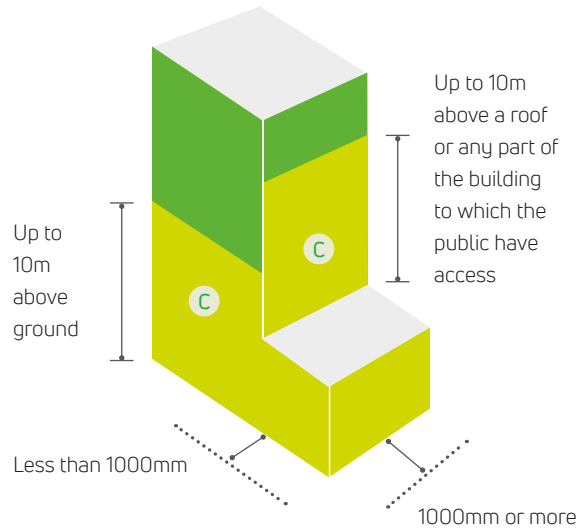
Scotscape's Fytotextile™ Living Wall system

03 Provisions for external walls

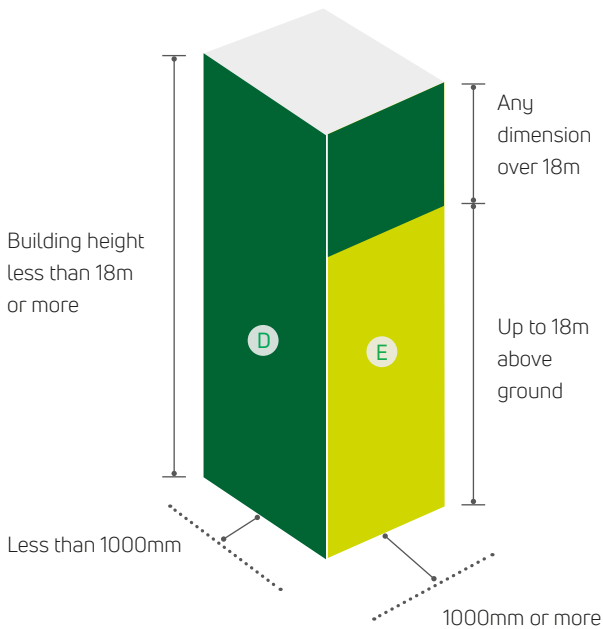
Any building



Assembly as recreational building of more than one storey



Any building



- Relevant boundary
- No provision in respect of the boundaries indicated
- Class 0 (national class) or class B-s3-d2 or better (European class) **Flytotextile™ System**
- Index (I) not more than 20 (national class) or class C-s3-d2 or better (European class). (The index I relates to test specified in BS 476-6)

*This information has been extracted from Guidelines generated in the Department for Communities and Local government documentation (copyright 2013) regarding the fire rating compliance of green roofs and living walls. Figure 2. Approved Document B Diagram 40 - Provisions for external surfaces or walls.

Smartscape's Fytotextile™ Living Wall system

Wall A

For a building less than 18m in height above ground level and a boundary of 1000mm or less, Living Walls used in the external wall construction should have a minimum fire rating of **Class 0 (National Class) Euroclass B-s3,d2**. [Smartscape Living Wall system exceeds this requirement as it has been accredited a Class 0 \(National Class\) Euroclass B-s2,d0](#)

Wall B

For a building less than 18m in height above ground level and a boundary of 1000mm or more, Living Walls used in the external wall construction are not required to have a fire rating

Wall C

In assembly and recreation buildings with more than one storey up to a height of 10m with a boundary exceeding 1000mm, the Living Walls should have a minimum fire rating of **Class 1 (National Class) Euroclass C-s3 d2**. [Smartscape Living Wall system exceeds this requirement as it has been accredited a Class 0 \(National Class\) Euroclass B-s2,d0](#)

Wall D

For a building with stories 18m or more above ground level and a boundary of 1000 mm or less, Living Walls used in any external wall construction should have an accreditation of **Class 0 (National Class) Euroclass B-s3,d2**. [Smartscape Living Wall system exceeds this requirement as it has been accredited a Class 0 \(National Class\) Euroclass B-s2,d0](#)

Wall E

For a building with stories 18m or more above ground level and a boundary of 1000mm or more, Living Walls used in the external wall construction up to 18m should be of limited combustibility **Class 1 (National Class) Euroclass C-s3 d2** or better and over 18m should have an accreditation of **Class 0 (National Class) Euroclass B-s3,d2**. [Smartscape Living Wall system exceeds both these requirements as it has been accredited Class 0 \(National Class\) Euroclass B-s2,d0](#)

If you require fire certification for your Living Wall, it is important to notify us when quoting as certification cannot be provided retrospectively