

Deck Technical Specification

MATERIAL STRUCTURE

Ecoscope is an environmentally innovative composite material that combines the best qualities of plastic and wood fibers. Ecoscope decking has a hollow composite profile. The material is and contains no harmful chemicals.

PROFILE DIMENSIONS

	Standard mm	Standard Lengths m	Weight kg/m
Decking Board	25 x 150	2.9	2.85
Fascia	6 x 40	2.9	

PHYSICAL AND MECHANICAL PROPERTIES

Property	Test Method	Standard Requirements	Test value
Bending Strength, N/mm ²	EN 310*	>2.5	3.258
Density, g/cm ³	EN ISO 1183*	>0.7	1.1
Falling mass impact, J (1 kg/1500 mm)	EN 477*	>12	No break (>15)
Surface Hardness (Rockwell), HRR	EN 1534*	>58	61
Wear resistance (Taber 1000 r), mm	EN 438-2	<0.08g/100	0.07g/100
Swelling, thickness (24 h), %	EN 317*	<1	0.4
Slip resistance (wet)	BS7976 - 2: 2002.	>23	35
Slip resistance (dry)	BS7976 - 2: 2002.	>23	53
Fire Class	EN 13501-1	F	B

EXPANSION PER LENGTH

Ecoscope decking will expand and contract with changes in temperature. The following table illustrates this effect over different temperature changes. The temperature change listed relates to the temperature of the board, not the air temperature. In direct sunlight, darker boards will reach higher temperatures than lighter colours.

Temp. Change of board	mm expansion / shrinkage	
	2.9m board	5.8m board
10° C	1	2
20° C	2	5
30° C	4	7
40° C	5	10
50° C	6	12