

THERMAL EXPANSION

As with all composite decks, profiles and its accessories made with material 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 material, not the air temperature. In strong sunshine, darker coloured boards will reach higher temperatures than lighter coloured boards.

INDICATIVE CHANGES IN LENGTH AT DIFFERENT TEMPERATURES

Temp. change of board	mm expansion / shrinkage					
	1m board	2 m board	3 m board	4 m board	5 m board	6 m board
10°C	0	1	1	2	2	2
20°C	1	2	2	3	4	5
30°C	1	2	4	5	6	7
40°C	2	3	5	6	8	10
50°C	2	4	6	8	10	12

COLOUR WEATHERING AND MAINTENANCE

Unlike conventional timber decks, Arline profiles is not suffer from the usual “complete change”. Instead, over the years, the colours will fade slightly. (This weathering may be accelerated in high altitude locations and other areas with strong UV.)

Cleaning with a jet hose or a normal hose and brush will help to maintain the colour. Such cleaning should be carried out periodically to ensure that surface is free of dirt and debris and that the space under the deck remains clear and able to drain water away effectively.

surface is very resistant to moisture absorption and therefore stains. If cleaned immediately after a spill, water is usually enough to remove all traces. Otherwise warm water, a household detergent and gentle brushing will work in most cases.

Illustration of typical weathering of a Stone Grey Deck in Central European climate.



Initial

1 years

5 years

ENVIRONMENT

As there is no other significant re-cycling process for the label surplus material, the Manufacture of Deck actually reduces land-fill and waste incineration. The only Added plastic is clean polypropylene. Production waste and off-cuts can be recycled into new Profiles. The material can also be disposed of with normal household waste for example to be converted into energy.