

Understanding Reflective Heat and its Potential Impact on Synthetic Grass

Reflective heat, a phenomenon often underestimated, can pose a threat to the longevity and aesthetics of synthetic grass. Here's an explanation of what reflective heat is, its potential effects on artificial turf, and practical tips to prevent issues occurring.

What is Reflective Heat?

Reflective heat occurs when sunlight is bounced off surfaces, magnifying its intensity. This can result in concentrated heat, especially in urban landscapes with various reflective elements like glass, balustrades, or Colorbond fencing. Synthetic grass, although designed to endure harsh conditions, may face challenges when exposed to excessive heat.

Impact on Synthetic Grass:

Our synthetic grass is manufactured to handle Australia's harsh conditions and withstand UV radiation. Our synthetic grass can handle surface temperatures of around 65-70°C. However, reflective heat can cause temperatures to surge beyond 85°C and in some cases to well over 140°C. This excessive heat may cause the synthetic grass to soften or melt. This can occur in areas where sunlight is magnified or reflected, such as in areas with glass fencing, balustrades, Perspex basketball backboards, or Colorbond fencing.

Preventive Measures:

Just having a reflective surface near your synthetic grass doesn't automatically lead to melting or failure. This effect may happen under certain conditions, mainly influenced by the sun's angle throughout the year. A significant portion of our grass is placed near reflective surfaces and issues seldom arise as the sun's angle doesn't create excessive reflective heat. In most cases, synthetic grass installed near reflective surfaces will stay resilient and trouble-free, provided the angle of sunlight doesn't produce the extreme heat.

In some instances the following suggestions can be included in your installation design to help prevent reflective heat issues.

Strategic Landscaping:

Glass Structures and Colorbond Fencing - create garden beds around these areas; include the use of pot plants which can be moved around; install shading elements like pergolas to diffuse and disperse sunlight.

Glass Pool Fencing - anticipate potential issues by assessing sunlight angles before installation; if there is potential for reflective heat consider extending paving works, adding decorative elements, or planting heat-resistant hedges to shield the synthetic grass.

In Summary:

Reflective heat may have a detrimental effect on your synthetic grass and this will not be covered under warranty. However this does not mean synthetic grass isn't suitable for your project. There are plenty of simple steps that can be taken to prevent or reduce reflective heat and keep your synthetic grass looking perfect all year round.