

SEAMLOCKZINC PRODUCT INFORMATION



SeamlockZinc features zinc particles incorporated into a durable coating which is specifically designed as an aesthetic option to naturally weather in a similar way to zinc, rather than retaining a fixed colour. The prevailing conditions of the installed location will influence this and produce different rates of tonal change delivering the aesthetic benefits of a 'live' material. The advanced coating system is applied over an aluminium substrate which provides a lightweight, durable and cost effective alternative to traditional zinc.

BENEFITS

SeamlockZinc is an attractive material that looks, weathers and performs just like zinc but costs less. The zinc in the coating does not leach and the aluminium substrate is one of the most sustainable metals; arguably the most recycled metal in the construction industry.

The factory manufacture and mechanical fixing of Seamlock contributes to a significant reduction in time onsite compared to traditional methods. Less time onsite fixing the product can result in cost savings when considering the overall 'supply and fix' price.

SEAMLOCKZINC COATING PROPERTIES

Properties	Method	Performance
Coating thickness	EN 13523 – T1	Nominal thickness 27 ^µ
Specular gloss	EN 13523 – T2	Less than 5% at 60° Gardner
Colour difference	EN 13523 – T3	Not applicable, colour evaluates with weathering
Resistance to cracking on rapid deformation	EN 13523 – T5	100%. No cracking
Adhesion after indentation	EN 13523 – T6	100%. No loss of adhesion
Resistance to cracking on bending	EN 13523 – T7	Fair flexibility (2T), depending on alloy and temper
Acetic salt spray fog resistance	EN 13523 – T8	300 hours: blisters of max 1mm corrosion under creeping
Water immersion resistance	EN 13523 – T9	1000 hours: No blisters
MEK test (Methyl – ethylketon)	EN 13523 – T11	100 Double rubs.

SYSTEM CONSTRUCTIONS

SeamlockZinc can be used in the construction of cold and warm Seamlock roofs. It has also been used on walls as a decorative or rainscreen cladding option to great visual effect. Warm roofs are Part L compliant and can be fixed over timber decks, structural insulated panels (SIP) or even over metal liners and structural decks.

WEATHERING

SeamlockZinc has a natural zinc element which means that the weathering process and the speed of weathering will be dependent on the building location and the atmospheric conditions around the building. If SeamlockZinc is installed in rural, city centre or marine environments the final tone and the rate of weathering will differ significantly. A city centre location will promote a very quick weathering process, potentially achieving most of its tonal shade within the first 6 months of installation, dependent on prevailing conditions. By contrast SeamlockZinc installed in a rural setting will experience considerably more time to achieve similar levels of weathering.

STANDARD DIMENSIONS OF SEAMLOCK SHEETS MADE FROM SEAMLOCKZINC MATERIAL

- Standard sheet width: 454mm
- Standard thickness: 0.9mm
- Maximum length sheet: 20 metres produced onsite, 14 metres delivered
- Minimum length sheet: 1 metre
- Maximum cover width of tapered sheets: 517mm
- Minimum cover width of tapered sheets: 200mm rolled only and 225mm if curved
- Minimum induced convex curve radius** 0.5 metres
- Minimum self-curve radius convex 15 metres
- Minimum self-curve radius concave 15 metres.

Seamlock can be manufactured from SeamlockZinc in any width from 200mm up to 517mm and in 0.9mm gauge.

Standard widths and thicknesses are based on optimal material utilisation. Other widths can be manufactured subject to requirements, additional costs and waste.

SEAMLOCKZINC PROJECT EXAMPLES

