MetFloor Coating Solutions

METALLIC COATINGS

Standard MetFloor products are manufactured in Z275 galvanised steel in accordance with BS EN 10346 and BS EN 10143, providing a minimum total coating mass of 275g/m². MetFloor profiles can also be manufactured using enhanced alloy coatings; specified for more aggressive environments and providing enhanced corrosion protection.

For both standard zinc and enhanced alloy coatings the resistance to corrosion increases with coating thickness and can be further enhanced by applying post-painting or organic coatings to the erected decking or steel coil respectively.

• HOT DIP GALVANIZED ZINC (Z275)

MetFloor's standard zinc coating provided to BS EN 10346, with 275g/m² coating weight equating to 20-microns per side. The Z275 coating is suitable for most internal decking applications and can also be post-painted onsite to create an aesthetic colour finish.

Application / Category		Indicative Lifespan*	Guarantee
Internal	C1	> 60 years	N/A
External	C3	Up to 30 years	N/A

• ENHANCED ALLOY COATINGS (E.G. ZM310/ZM430)

MetFloor is available with enhanced alloy coatings (zinc-aluminium-magnesium), optimised for long-term corrosion resistance. When coated with enhanced alloys, MetFloor structural capacities are maintained but with an increased corrosion resistance. The performance advantage of these enhanced alloys vs. standard zinc increases as the exposed environment becomes harsher. The enhanced alloy coatings also have greater self-healing properties at locations of sheared edges or punched holes.

Application / Category		Indicative Lifespan*	Guarantee
Internal	C2	> 70 years	Guarantee dependent upon location and environmental category, provided on a project by project basis.
External	C3	> 60 years	
External	C4	> 40 years	

COLOUR COATINGS

Colour coatings consist of carbon-rich polymeric organic compounds which are applied as an additional layer over the metallic coated coil. They provide an aesthetic colour finish with enhanced durability when used in conjunction with a robust maintenance regime. It is advised that pre-coated decks be used for formwork design and without through deck stud welding only.

Lifespans stated do not include for the metallic substrate and are indicative only. Lifespans given are for the aesthetic and functionality of the organic coating only with guarantees provided on a project by project basis. When combined with regular maintenance and the protection provided by the metallic coating, the lifespan of the system may be enhanced.

• HARD COAT POLYESTER (40µm)

Hard Coat Polyester provides an enhanced protective coating solution beyond standard polyester and other organic coatings. A robust solution providing an aesthetic, chrome free, colour finish.

Application / Category		Indicative Lifespan*	Guarantee
External	C3	> 25 years	Guarantee dependent upon location and environmental category, provided on a project by project basis.

• PVC PLASTISOL (200µm/ 170µm)

Plastisol is an established product with a soft coating finish. It has greater corrosion resistance than other organic coatings when used within chlorine environments such as swimming pools and is also chrome free.

Application / Category		Indicative Lifespan*	Guarantee
External	C3	> 25 years	Guarantee dependent upon location and environmental category, provided on a project by project basis.

POST-PAINTED ONSITE

As an alternative to pre-coated coil, standard metal decking may be post-painted onsite. Corrosion resistant paint is applied by others onsite following the installation of CMF decking with any metallic coating substrate. The corrosion resistance of post-painted decking matches that of metallic coated deck plus any enhancements provided by the paint system selected.

Benefits of post-painting onsite include the removal of transit or cleanliness issues, improvements on installation times compared to pre-coated steel and flexibility on product specification.

LIFESPAN TO 1ST MAINTENANCE » CONTINUED MAINTENANCE REGIME »

DESIGN WORKING LIFE »

Product guarantees are available from coating suppliers following review of the application and project location

For further information please contact CMF:

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*NB: Lifespans may vary with project location and usage – to be confirmed per project

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