



**SPEEDFLOOR**

*Faster      Lighter      Easier*

## Serviceable Life

Speedfloor is a composite floor system using both steel and concrete. The two elements must be treated and maintained separately.

### Steel

The rollformed joist is manufactured from steel coated with either 275g/sqm or 450g/sqm of zinc. If the joists are in a clean and dry environment they will require little or no maintenance. If they are exposed, they will require a minimum amount of maintenance to ensure the expected performance is achieved. Guidelines for this maintenance are:

1. Keep surfaces clean and free from continuous contact with moisture, dust and other debris (a 14-mPa waterblast every 2 years will suffice).
2. Periodically inspect the joists for any signs of surface corrosion. Remove any by-products of the corrosion by mechanical means and spot prime the exposed steel substrate with an approved steel primer. Repaint the area using an appropriate paint to manufacturer's recommendations.

### Concrete

All calculations for the concrete slab are based on a density of 2350 kg/m<sup>3</sup> with a specified strength of 25 mPa and type A aggregate.

Special attention is paid to the mix and placement of the concrete in the Speedfloor system to minimize the likelihood of shrinkage cracks occurring during the initial curing period. The initial slump is specified at 60mm and a super-plasticizer is used to improve workability during placement. In carpark structures and exposed decks an expanding agent is generally used to reduce the effect of shrinkage during the initial cure and a curing compound is used to help control the curing process. During the service life of the Speedfloor system if any cracks should appear in the concrete floor, they should be filled using an approved epoxy injection system or equivalent, to completely close the crack and prevent moisture ingress.