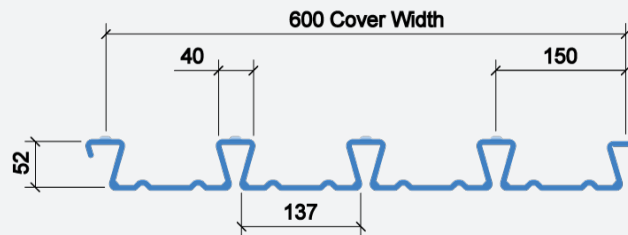


## Product Data Sheet SMD Profile Details and Sectional Properties

### R51+™

#### Composite Metal Floor Deck Profile



#### Description

Updated from the original R51 product in 2018, this profile is available in S350 and S450 grades to provide the designer greater flexibility. R51+ is a traditional re-entrant profile commonly used on inner city multi-storey projects, where the structural zone and storey height is reduced, due to the relatively thin slab depth required to achieve a typical one hour fire rating.

#### Benefits

- 102mm minimum slab depth
- Optimised to maximise structural efficiency of steel
- 150mm trough spacings provide flexibility for stud placement
- TAB-Deck™ fibre concrete option

#### Gauges

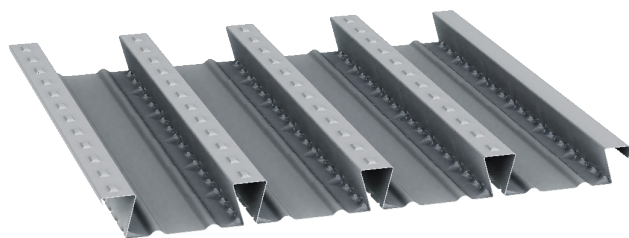
- 0.8mm
- 0.9mm
- 1.0mm
- 1.2mm

#### Specification

- 600mm cover width
- 52mm deep

#### Steel Grade

- S350
- S450



#### Finishes

- Galvanised (Z275)
- High Durability (ZM310)

#### Profile Properties

Nominal Thickness mm	Design Thickness (bare steel) mm	Weight of Profile kg/m <sup>2</sup>	Weight of Profile kN/m <sup>2</sup>	Height of Neutral Axis mm	Area of Steel mm <sup>2</sup> /m	Moment of Inertia cm <sup>4</sup> /m
0.8	0.76	12.02	0.118	15.80	1464	56.9
0.9	0.86	13.54	0.133	16.20	1657	61.3
1.0	0.96	15.01	0.147	16.50	1845	68.7
1.2	1.16	17.98	0.176	17.00	2223	85.6

Section properties are calculated assisted by testing in accordance with Eurocode 3.

