

# Colorcoat FD<sup>®</sup> 25

## Pre-finished steel for composite floor decking

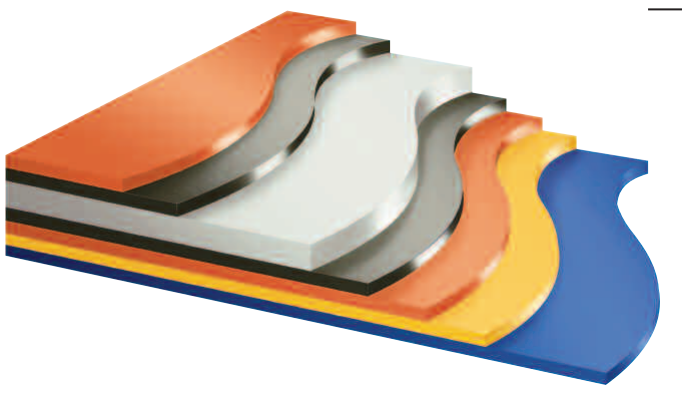
Colorcoat FD<sup>®</sup> 25 pre-finished steel is ideal for use as part of a composite floor decking system when the exposed soffit is used as a feature of the building's interior.

The improved appearance and durability of the pre-finished steel soffit provides a perfect solution for buildings such as multi-storey car parks.






Colorcoat FD<sup>®</sup> 25 is available in a range of structural steels, the choice of which is dependent on the strength and building performance requirements.

### Product features

- Smooth 25µm polyester coating giving increased protection to exposed soffits.
- Good formability and durability in exterior applications.
- Galvanised substrate produced to BS EN 10346:2015 with a Zinc metallic coating offering very good corrosion resistance.
- Topcoat available in white as standard for optimum reflectivity. Other colours available on request.
- Reverse side pre-treatment compatible with concrete.
- Project specific guarantees are available.



**Key**

- |   |   |   |
|---|---|---|
|  Topcoat<br>(Carpark Ceiling) |  Primer    |  Pre-treatment |
|  Zinc                         |  Substrate |   |



# Colorcoat FD<sup>®</sup> 25

## Guarantee period

Colorcoat FD<sup>®</sup> 25 is available with a paint adhesion and colour fade project specific guarantee of up to 10 years depending upon exact project details. Please contact the Colorcoat Connection<sup>®</sup> helpline for further information.

**Note:** Not recommended for use in marine environments up to 2km from the coast.

## Strippable film

If strippable film has been applied at manufacture, it must be removed on-site as per film suppliers recommendations.

## Use of Colorcoat FD<sup>®</sup> 25

Through deck welded shear studs cannot be used with Colorcoat FD<sup>®</sup> 25, however various alternative fixing options are available such as pre-welding the beam. For more information contact the composite floor decking system manufacturer.

## Product testing

To ensure the integrity of Colorcoat<sup>®</sup> products, Tata Steel uses laboratory tests to measure their performance against corrosion, effect of chemicals and abrasion. All product testing is carried out in accredited laboratories to international standards.

Colorcoat FD<sup>®</sup> 25 has a reaction to fire classification of A1 in accordance with BS EN 13501 and meets the requirements of Class 0 of the Building Regulations for England and Wales 2006.

## Mechanical properties

Grade	Yield strength ReH (N/mm <sup>2</sup> )	Tensile strength Rm (N/mm <sup>2</sup> )	Elongation A <sub>80</sub> (%)
S350	350 (min)	420 (min)	16 (min)
S320	320 (min)	390 (min)	17 (min)
S280	280 (min)	360 (min)	18 (min)

All steel grades are available with a gauge of 0.9mm to 1.2mm in standard coil widths of 890mm to 1300mm.

### Notes

1. Values are based on test pieces taken in the longitudinal direction.
2. Tensile values relate to test pieces cross sections without Zinc coating.
3. The index of elongation indicates the original gauge length used, expressed in millimetres, e.g. A<sub>80</sub> indicates an 80mm gauge length.
4. S280GD+Z, S320GD+Z and S350GD+Z are manufactured according to BS EN 10346:2015.
5. Following the paint process there is virtually no age hardening of the substrate.
6. Gauge tolerances are normal or special as per BS EN 10143:2006. For other tolerances please contact Tata Steel.

## Typical properties

Colorcoat FD <sup>®</sup> 25			Test standard
Nominal organic coating thickness	( $\mu$ m)*	25	EN 13523-1
Specular gloss (60°) Standard colours	(%)	25-45	EN 13523-2
Scratch resistance Standard colours	(g)	> 2500	EN 13523-12
Abrasion resistance (Taber, 250 rev, 1 kg) Standard colours	(mg)	< 40	EN 13523-16
Flexibility:			
Minimum bend radius	(T)	3 (16°)	EN 13523-7
Reverse impact	(J)	16	EN 13523-5
Adhesion (cross hatch)	(%)	100	EN 13523-6
Corrosion resistance:			
Salt spray	(h)	500	EN 13523-8
Humidity	(h)	1000	EN 13523-25
UV resistance category		Good	EN 13523-10
Reaction to fire		Class A1	EN 13501

\* $\mu$ m = microns

### General notes

The figures in this table are typical properties and do not constitute a specification. These figures relate to the painted surface. Colorcoat FD<sup>®</sup> 25 meets the requirements of Class 0 of the Building Regulations for England and Wales 2006.

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