

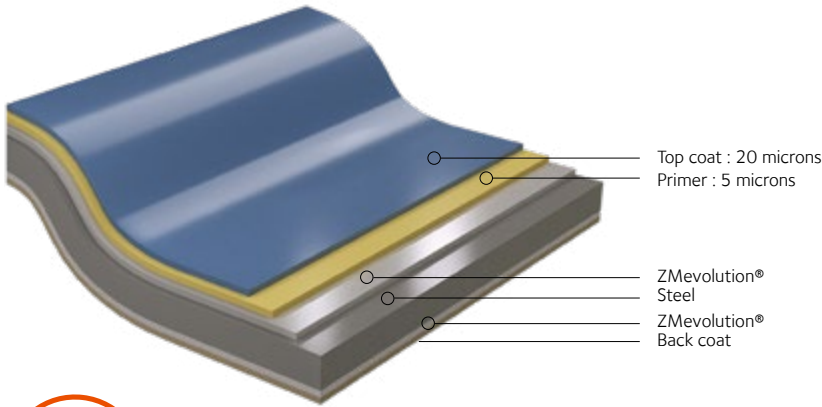


# Hairplus

Freedom



ArcelorMittal



## Properties and applications

- Good resistance to corrosion
- Good color and appearance stability
- Good outdoor durability
- Good forming ability



Urban

> Available with anti-graffiti Flontec® functionality

## Colour freedom

### Applicable standards

#### Metal substrate

EN 10346: 2015  
CSTB: ETPM ZMEvolution®  
Zulassung Z-30.11-61

#### Organic coating

EN 10169: 2013  
CSTB: ETPM ZMEvolution®  
Zulassung Z-30.11-61

### Coating description

#### Composition

Thermosetting polyester resin  
Front: 5 µm of primer - 20 µm of top coat  
Back: Back coat category **CPI2**

#### Possibilities

Back: 25 µm on request

#### Gloss

Hairplus®: nominal 30 GU  
Hairplus® M on request: nominal 15 GU

### Coating class

#### Indoor environment

Category **CPI3** (NF EN 10169)

#### Outdoor environment

Category **RUV3 and RC3** (NF EN 10169)  
Category **C3** (Zulassung Z-30.11-61)

## Coating properties

Paint hardness	Pencil hardness	HB-H	Color Gloss	UV resistance	$\Delta E \leq 3$ Gloss retention $\geq 60\%$	
	Sand blasting	40 liters		Corrosion	Salt spray test	360 hours
Abrasion resistance	TABER	60 mg	Humidity resistance		1000 hours	
	Flexibility at 20 °c	Brutal indentation	No peeling	Chemical agents	Acids, bases and solvents	Acids and bases > Good
Bending		3t without cracking	Mineral oils > Very good			
ERICHSEN		Very good	Aliphatic solvents > Very good			
Thermal resistance	Oven	Maxi : 90°C	Fire behavior	Euroclass	A1	
						Volatil organic compounds
					Formaldehyd : 11,9µg/m <sup>3</sup>	
						CMR<Limit of detection

Any trust guarantee must be validated/authorized by ArcelorMittal Construction and the durability will be defined by our specialists after analysis of the environmental questionnaire.