



# PRE-PAINTED STRIPS/SHEETS

## EN 10169

FERPINTA produces pre-painted steel sheets in accordance with the EN 10169 standard.

Products with organic coating (pre-painted) are submitted to a continuous painting process, where the substrate is a hot-dip galvanized coating, which ensures higher corrosion resistance.

This solution offers higher versatility and is mainly suitable for the construction area, especially, for roofing, ceilings, household appliances, furniture, radiators, among others.

## DIMENSIONAL PROPERTIES

### Width tolerances for shapes and wide strips

Nominal width (mm)	Normal tolerances (mm)		Tight tolerances (S) (mm)	
	Lower	Higher	Lower	Higher
< 600 ≤ 1200	0	+5	0	+2
> 1200 ≤ 1500	0	+6	0	+2
> 1500	0	+7	0	+3

# DIMENSIONAL PROPERTIES

## Thickness tolerance

Nominal thickness (mm)	Tolerances for a nominal width (mm)			Tight tolerances (S) for a nominal width (mm)		
	≤ 1200	> 1200 ≤ 1500	> 1500	≤ 1200	> 1200 ≤ 1500	> 1500
≤ 0,40	± 0,05	± 0,06	-	± 0,03	± 0,04	-
> 0,40 ≤ 0,60	± 0,06	± 0,07	± 0,08	± 0,04	± 0,05	± 0,06
> 0,60 ≤ 0,80	± 0,07	± 0,08	± 0,09	± 0,05	± 0,06	± 0,06
> 0,80 ≤ 1,00	± 0,08	± 0,09	± 0,10	± 0,06	± 0,07	± 0,07
> 1,00 ≤ 01,20	± 0,09	± 0,10	± 0,11	± 0,07	± 0,08	± 0,08
> 1,20 ≤ 1,60	± 0,11	± 0,12	± 0,12	± 0,08	± 0,09	± 0,09
> 1,60 ≤ 2,00	± 0,13	± 0,14	± 0,14	± 0,09	± 0,10	± 0,10
> 2,00 ≤ 2,50	± 0,15	± 0,16	± 0,16	± 0,11	± 0,12	± 0,12
> 2,50 ≤ 3,00	± 0,17	± 0,18	± 0,18	± 0,12	± 0,13	± 0,13

## Length tolerances

Length (mm)	Normal tolerance (mm)		Tight tolerance (S) (mm)	
	Lower	Higher	Lower	Higher
< 2000	0	6	0	3
≥ 2000	0	0,3% of the length	0	0,15% of the length

## Flatness tolerances of low carbon steel sheets

Tolerance Grade	Nominal width (mm)	Nominal thickness (mm)		
		< 0,7	≥ 0,7 < 1,2	≥ 1,2
Normal	≥ 600 < 1200	12	10	8
	≥ 1200 < 1500	15	12	10
	≥ 1500	19	17	15
Tight (FS)	≥ 600 < 1200	5	4	3
	≥ 1200 < 1500	6	5	4
	≥ 1500	8	7	6

# TABLE OF DIMENSIONS

Thickness (mm)	Width (mm)					
	1000			1250		
	Sheets (kg)	Units p/ Bundle	Bundle (kg)	Sheets (kg)	Units p/ Bundle	Bundle (kg)
0,4	6,28	400	2512	9,81		0
0,5	7,85	320	2512	12,27	205	2514
0,6	9,42	270	2543	14,72	170	2502
0,8	12,56	200	2512	19,63	130	2551
Length ref. (mm)	2000			2500		

# STEEL GRADES

Steel Grade	Coating type	Chemical properties								Mechanical properties		
		Nominal thicknesses % by mass								R <sub>e</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>80</sub> min. %
		C % máx.	Si % máx.	Mn % máx.	P % máx.	S % máx.	Ti % máx. <sup>a)</sup>	Al <sub>total</sub> % mín.	Nb % máx.			
DX51D	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,18	0,50	1,20	0,12	0,045	0,30	-	-	-	270-500	22
DX52D	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,12	0,50	0,60	0,10	0,045	0,30	-	-	140-300	270-420	26
DX53D	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,12	0,50	0,60	0,10	0,045	0,30	-	-	140-260	270-380	30
S220GD	+Z;+ZF;+ZA;+ZM;+AZ	0,20	0,60	1,70	0,10	0,045	-	-	-	R <sub>p0,2</sub> min.	R <sub>m</sub> min.	A <sub>80</sub> min.
S250GD	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,20	0,60	1,70	0,10	0,045	-	-	-	220	300	20
S280GD	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,20	0,60	1,70	0,10	0,045	-	-	-	250	330	19
S320GD	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,20	0,60	1,70	0,10	0,045	-	-	-	280	360	18
S350GD	+Z;+ZF;+ZA;+ZM;+AZ;+AS	0,20	0,60	1,70	0,10	0,045	-	-	-	320	390	17
										350	420	16

<sup>a)</sup> By agreement upon inquiry and ordering, the Ti content for the steel grades mentioned in this table can be reduced to <0.05%, meaning that the steel grade is unalloyed.

# SUPPLY CONDITIONS

## PACKAGING

The material is available in strips/coils, strapped with bands of steel and, in the case of shaped sheets, in bundles wrapped in protective film. To facilitate the handling of bundles (loading/unloading), they are supported by wooden beams.

## LABELING

Each strip/coil/bundle is supplied with a label, ensuring proper identification of the product and its traceability.

## CERTIFICATE

Each order will be accompanied by the corresponding inspection certificate according to EN 10204, in accordance with the product's applicable standard.

# SUPPLY OPTIONS

## SPECIAL TOLERANCES

THICKNESS, LENGTH AND WIDTH:

This product is supplied with thickness, width, and length tolerances (in the case of shaped sheets) in accordance with the applicable standard. Special tolerances may be available upon request. Edge trimming possible.

STEEL GRADES:

The possibility of supplying other steel grades not mentioned above can be evaluated upon request.

## WRAPPING AND PACKAGING

The strips/coils/bundles can be configured according to the client's specifications, as requested at the time of the inquiry/order. Possibility of using packaging with anticorrosion protection (VCI).

## COATINGS AND SURFACE TREATMENTS

The products are supplied in accordance with the applicable standards, with the possibility of additional treatments/coatings as previously requested at the time of the inquiry/order, under the customer's responsibility.

## LABORATORY TESTS

Possibility of requesting specific laboratory tests, not foreseen in the applicable standard (anisotropy, salt fog, metallography, thickness elongation, among others)

# APPLICATION AREAS



INDUSTRY



CONSTRUCTION