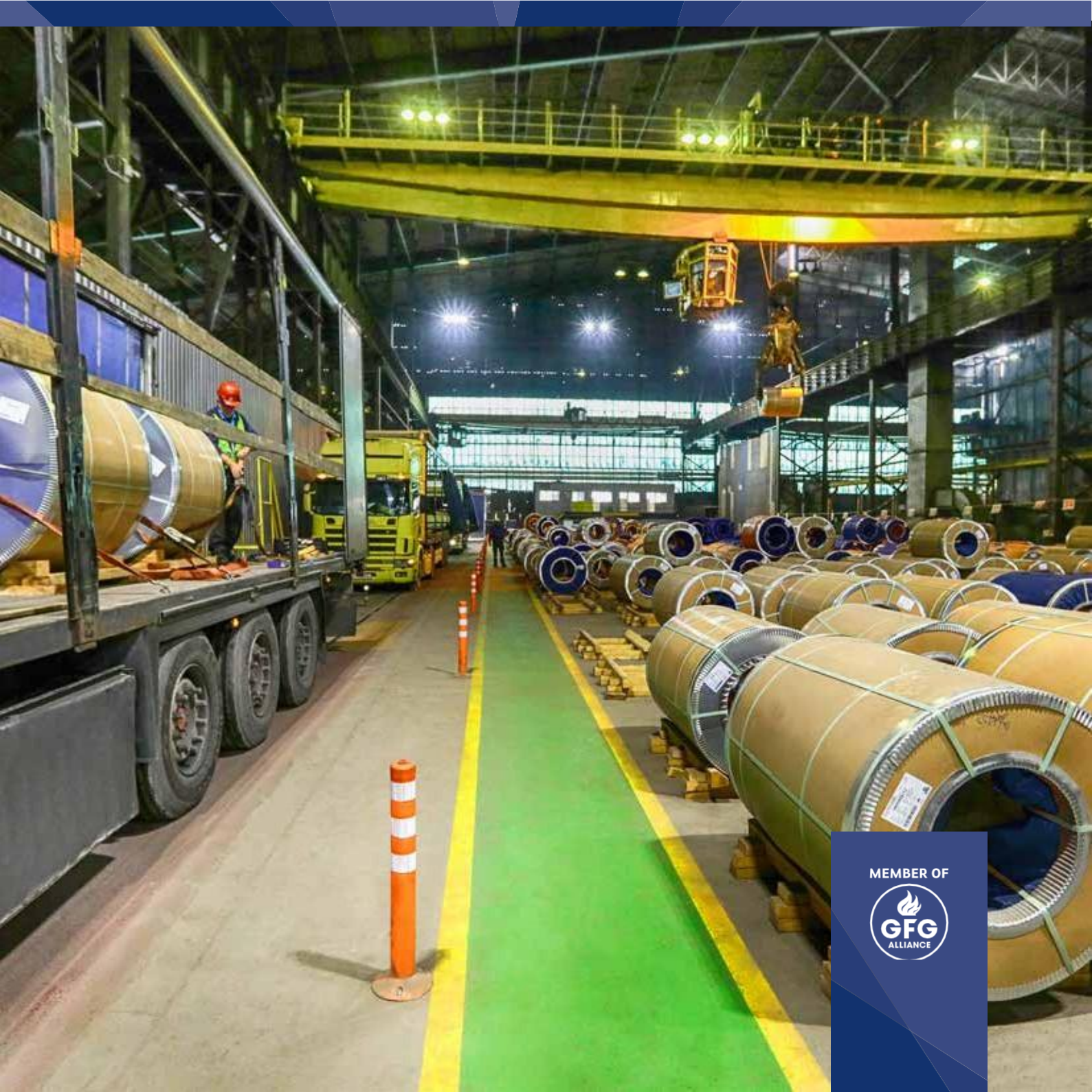


Production Program



LIBERTY Skopje
www.libertyskopje.mk



MEMBER OF

The logo for GFG Alliance, featuring a stylized flame icon inside a circle with the text "GFG ALLIANCE" below it.

GFG
ALLIANCE

Products Available

Organic Coated Coils - OC

Hot Dip Galvanized Coils and Sheets - HDGC and HDGS

1. Steel Grades Available

Product	Grade	Description	TDCS	Remark
Coated Products	DX51D+Z	Low carbon steel for cold forming	EN 10346	
	DX51D CBF* +Z	Low carbon steel for cold forming	EN 10346	*steel grade suitable for round shapes
	S220GD +Z	Steels for construction	EN 10346	
	S250GD +Z	Steels for construction	EN 10346	
	S280GD +Z	Steels for construction	EN 10346	
	S320GD +Z**	Steels for construction	EN 10346	
	S350GD +Z**	Steels for construction	EN 10346	** - Limited volumes

2. Dimensional Range

Product	Thickness		Width		Length for sheets	
	Min. (mm)	Max. (mm)	Min. (mm)	Max. (mm)	Min. (mm)	Max. (mm)
Organic coated	0.30*	1.0	1000**	1250		
Hot dip galvanized	0.30*	2.5	1000**	1250	610	4880

**lower width than 1000mm accepted conditionally - availability of requested width, thicknesses less than 0.35mm not offered.

Grade DX51D CBF is accepted with limited volume for limited range of applications

2.1. Thickness Tolerances

N - normal tolerance

S - special tolerance

1/2EN - half EN - conditional agreement

2.2. Width Tolerances

N - normal tolerance

S - special tolerance

2.3. Standard Material - dimension with Zinc layer

Thickness	Width	Zinc layer (gr/m ²)
0.45 or 0.50	1000	100
0.45 or 0.50	1250	100
0.45 or 0.50	1250	140

3. Quantity

Minimum quantity per item	13 tons
Quantity tolerances	If order \leq 50 tons tolerance is +/- 20% If order $>$ 50 tons tolerance is +/- 10%

Claims will be considered above 2% of the delivered order quantity

10% tolerance of ordered quantity per order for underweight coils against requested coil weight

For any new application or new customers recommendation is to start with trial of max 50 tons to validate the product specification.

4. Quality documents according EN 10204

Mill test certificate 2.1; 2.2

Mill test certificate 3.1

5. Transport

Increased transport costs may occur if coils with weight higher than 13 tons are ordered.

Please consult us regarding ordering coils with higher weight.

6.5. Coil Weight

Standard offered CW	Type of Coating	Max Coil Weight
	Smooth	12 tons
	Mat	6 tons

6.6. Packaging

Type of Packaging	Description
L16 Paper	VCI paper +Inside sleeve protection (cardboard*) + 2 inner + 2 outer edge protection rings (steel), +3 circumferential +4 radial straps
L24 Hardboard	VCI Paper + Inside sleeve protection (cardboard*) +Outside sleeve protection (hardboard) + 2 side protection disks (steel), + 2 inner + 2 outer edge protection rings (steel), + 3 circumferential + 6 radial straps
L25 Metal	VCI Paper + Inside sleeve protection (cardboard*+steel) +Outside sleeve protection (steel) + 2 side protection disks (steel), + 2 inner + 2 outer edge protection rings (steel), + 3 circumferential + 6 radial straps

*If ID 610 inside sleeve protection is Hardboard, or steel

7. Hot Dip Galvanized

7.1. Zn Coating Range

Min. Z100	Z140	Z200	Z225	Max. Z275
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7.2. Zn Coating Distribution

Only symmetrical coating accepted according EN 10346

7.3. Surface Aspect

Code	Aspect	Remarks
NA	Normal Spangle	
NB	Zero Spangle (skin passed)	Material ready for painting, only without E-passivation (oiling recommended)

7.4. Surface Protection Treatment

Code	Treatment	Remarks
C	E-passivated	Cr3+ no Cr free available
O	Oiled	
CO	E-passivated + oiled	This option is not applicable as NBCO combination
U	Untreated	These untreated conditions accepted only if customer accept risk of corrosion.

7.5. Oiling Conditions

Oiling Code	Oil q-ty	Remarks
N - Normal	> 1 g/m ²	All thicknesses
L -Light	0.5 - 1 g/m ²	Limited to thicknesses < 1.2 mm
VL - Very light	0.3 - 0.5 g/m ²	Limited to thicknesses < 1.2 mm * limited volume

7.6. Coil Inner Diameter

610 mm with tolerance +/- 20mm

inside sleeve protection (cardboard) available on customer request

7.7. Coil Weight

	Width	Max Coil Weight
Standard offered CW	900	16 tons
	1000	18 tons
	1250	20 tons

* Min coil weight is 40% from max coil weight ordered

10% tolerance of ordered quantity per order for underweight coils against requested coil weight

7.8. Cut to Length

Thickness (min-max)	Width (min-max)	Length (min-max)	Weight (min-max)
0.35-2mm	610-1250mm	610-4880mm	2-5MT

7.9. Packaging

Type of Packaging	Description
C16 Paper	VCI paper +Inside sleeve protection (Hardboard) + 2 inner + 2 outer edge protection rings (steel), +3 circumferential +4 radial straps
C24 Hardboard	VCI Paper + Inside sleeve protection (hardboard) +Outside sleeve protection (hardboard) + 2 side protection disks (steel), + 2 inner + 2 outer edge protection rings (steel), + 3 circumferential + 6 radial straps
C26 Metal	VCI Paper + Inside sleeve protection (steel) +Outside sleeve protection (steel) + 2 side protection disks (steel), + 2 inner + 2 outer edge protection rings (steel), + 3 circumferential + 6 radial straps

New Developments

For any new application or new customers recommendation is to start with trial of max 50 tons to validate the product specification.

Contact with the mill

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