MAGHREB STEEL

L'acier au cœur de l'industrie

MASTER CATALOGUE STEEL
STEEL FLAT SOLUTIONS
COLD ROLLING

www.maghrebsteel.ma


MAGHREB STEEL

About us:

Maghreb Steel is the only producer of flat steel in Morocco.Initially specializing in the manufacture of steel tubes, Maghreb Steel has become, through large investments, a key player in the Moroccan steel sector.

Vision and mission:

We aim for excellence through the constant search for performance and the mobilization of collective intelligence.We carry out our mission transparently and with rigor.

Values:

New technologies

There technology EAF Ovenshas arc electric) used in the steelworks for the recycling of there scrap (waste)

2022

Launch of fire-resistant PIR sandwich panels

The international market

It Exports its know-how in flat steel to the four corners of the world, with an export turnover exceeding 30%

Our product

Diversified product range

Quality

Our certificates products are compliant has there documentation international, that This either at regarding analyses, technical aspects or product sheets.

Certificats

Certificate Name	Inspection Type
ISO 9001	Quality management systems
ISO 14001	Environmental management system
ISO 45001	Occupational health and safety management system.
CE	Flat products
NM	Moroccan standard for flat steel products

Maghreb Steel has an integrated management system (IMS) covering quality management, environmental protection and occupational health and safety. All areas are monitored regularly through internal and external audits.Maghreb Steel is certified in many areas ISO 9001, ISO 14001, ISO 45001, CE, NM.

Contents

STEELS FOR COLD FORMING AND DRAWING 7

HSLA - HIGH SRENGTH LOW ALLOY STEEL FOR COLD FORMING 11

COLD ROLLED STEELS FOR ENAMELING 14

HOT-DIP GALVANIZED STEEL 18

STEELS FOR COLD FORMING AND STAMPING

COIL - STRIP - SHEET METAL

STEELS FOR COLD FORMING AND DRAWING

The steels for forming has cold and stamping are of the steels soft non allies rolled has cold then annealed in controlled atmosphere.These steels present a excellent
suitability for forming and stamping with guaranteed mechanical characteristics.

Scope	Standards	Grade	delivery status
These steels are used for shaping by folding or stamping.The main areas of application are: - The automotive industry. - Household appliances. - Metal furniture. -The manufacture of barrels.heating and ventilation devices. - Tubes and narrow profiles	EN 10130	DC01* DC03* DC04* DC05* DC06*	Products can be delivered with certificates type 3.1/2.2 or 2.2cc in accordance with EN 10204

- **Surface appearance: A or B**
- **Roughness: normal.“0.6 µm < Ra < 1.9 µm”. unless specified when ordering.**

ADDITIONAL OPTIONS:

The following information must be specified at the time of ordering:
Quantity to be delivered.
Product designation/ surface appearance/ roughness.nominal/ dimensions/ reference standards (technical delivery conditions and tolerances on dimensions and shape) and/or any specific customer requirements.
Any additional requirements in terms of controls.tests and control documents.
- All customer-specific options relating to the EN 10130 standard. If the customer does not give any indication as to the execution of one of these options from the EN 10130 standard.

MAGHREB STEEL delivers its products according to basic specifications.

CHEMICAL COMPOSITION EN 10130

	≤ C (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≥ Al (%)	≤ Ti (%)
DC 01	0.12	0.6	0.045	0.045	0.02	-
DC 03	0.10	0.45	0.035	0.035	0.02	-
DC 04	0.08	0.4	0.030	0.030	0.02	-
DC05	0.06	0.35	0.025	0.025	0.02	-
DC06	0.02	0.25	0.020	0.020	0.02	0.3

MECHANICAL CHARACTERISTICS / EN 10130

	Épaisseur(mm)	Rp (Mpa)	R_m (Mpa	A (%)	r90 min	n90 Min
DC 01	0.18 - 0.50	140 - 320	270 - 410	≥ 24	-	-
	0.51 - 0.70	140 - 300		≥ 26	-	
	0.71 - 2.00	140 - 280		≥ 28	-	-
	>2.00				-	-
DC 03	0.18 - 0.50	140 - 280	270 - 370	≥ 30	-	
	0.51 - 0.70	140 - 260		≥ 32	1.3	-
	0.71 - 2.00	140 - 240		≥ 34		-
	>2.00				1.1	
DC 04	0.18 - 0.50	140 - 250	270 - 350	≥ 34	-	-
	0.51 - 0.70	140 - 230		≥ 36	1.6	0.18
	0.71 - 2.00	140-210		≥ 38		
	>2.00				1.4	
DC 05	0.18 - 0.50	140 - 220	270 - 330	≥ 36	-	-
	0.51 - 0.70	140 - 200		≥ 38	1.9	0..20
	0.71 - 2.00	140-180		≥ 40		
	>2.00				1.7	
DC06	0.18 - 0.50	120 - 220	270 - 330	≥ 37	-	-
	0.51 - 0.70	120 - 200		≥ 39	2.1	0.22
	0.71 - 2.00	120-170		≥ 41		
	>2.00				1.8	

EQUIVALENT GRADES

EN 10130	DIN 1623	JIS G3141	ASTM
DC 01	ST 12*	SPCC*	A 366 CQ*
DC 03	ST 13*	SPCD*	A 619 DQ*
DC 04	ST 14*	SPCE*	A 620 DQSK*
DC 05	ST 15*	-	-
DC06	-	-	-

DIMENSIONAL MAPPING

Epaisseur	DC01 Largeur 1000	DC01 Largeur 1250	DC01 Largeur 1300	DC04 Largeur 1000	DC04 Largeur 1250	DC04 Largeur 1300	DC05 Largeur 1000	DC05 Largeur 1250	DC05 Largeur 1300	DC06 Largeur 1000	DC06 Largeur 1250	DC06 Largeur 1300
0.2	■											
0.3	■			■								
0.4	■	■		■	■		■	■		■	■	
0.5	■	■		■	■		■	■		■	■	
0.6	■	■		■	■		■	■		■	■	
0.7	■	■		■	■		■	■				
0.8	■	■		■	■							
0.9	■	■		■	■							
1	■	■	■	■	■							
1.1	■	■		■	■							
1.2	■	■		■	■							
1.3	■	■		■	■							
1.4	■	■		■	■							
1.5	■	■		■	■							
1.6	■	■		■	■							
1.7	■	■		■	■							
1.8	■	■		■	■							
1.9	■	■		■	■							
2	■	■		■	■							
2.1	■	■		■	■							
2.2	■	■		■	■							
2.3	■	■		■	■							
2.4	■	■		■	■							
2.5	■	■		■	■							
3	■	■		■								

HSLA - HIGH SRENGTH LOW ALLOY STEEL FOR COLD FORMING

These steels are characterized by low carbon and alloy element contents.which gives them excellent functional properties such as suitability for welding or coating.Their hardening obtained by precipitation and grain size refinement makes it possible to achieve high levels of mechanical resistance.They combine improved weldability and good formability.
The narrow range of their mechanical characteristics facilitates forming on presses or more generally.on automated lines.They are characterized.Finally.by good fatigue resistance and high impact resistance.

Scope	Standards	Grade	delivery status
The HSLA intendend in particular: - Structural parts not requiring severe forming (profiling, folding or light stamping): automotive structures and reinforcements. - In industrial shelving. - To the radiators. - Storage systems. - Metal furniture - Mechanical construction...	EN 10268	HC260LA HC300LA HC340LA HC380LA HC420LA	Products can be delivered with certificates type 3.1/2.2 or 2.2cc in accordance with EN 10204

- **Surface appearance: A or B.**
- **Roughness: normal.“0.6 µm < Ra < 1.9 µm”. unless specified when ordering.**

ADDITIONAL OPTIONS:

The following information must be specified at the time of ordering:
- Quantity to be delivered.
- Product designation.surface appearance.roughness.nominal dimensions.reference standards (technical delivery conditions and tolerances on dimensions and shape) and/or any specific customer requirements.
- Any additional requirements in terms of controls.tests and control documents.
- All customer-specific options relating to the EN 10268 standard.

MAGHREB STEEL delivers its products according to basic specifications.

CHEMICAL COMPOSITION EN 10268

	≤ C (%)	≤ Si (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≤ Al (%)	≥ Ti (%) a)	≥ Nb (%)
HC260LA	0.1	0.5	0.6	0.025	0.025	0.015	0.15	-
HC300LA	0.1	0.5	1.0	0.025	0.025	0.015	0.15	0.09
HC340LA	0.1	0.5	1.1	0.025	0.025	0.015	0.15	0.09
HC380LA	0.1	0.5	1.6	0.025	0.025	0.015	0.15	0.09
HC420LA	0.1	0.5	1.6	0.025	0.025	0.015	0.15	0.09

MECHANICAL CHARACTERISTICS EN 10268

Grade	Épaisseur (mm)	Rp (MPa)	R_m (MPa)	A (%)
HC260LA	0.18 - 0.50	260 - 330	380 - 480	26
	0.51 - 0.70			24
	> 0.70			26
HC300LA	0.18 - 0.50	300 - 380	380 - 480	23
	0.51 - 0.70			21
	> 0.70			23
HC340LA	0.18 - 0.50	340 - 420	410 - 510	21
	0.51 - 0.70			19
	> 0.70			21
HC380LA	0.18 - 0.50	380 - 480	440 - 560	19
	0.51 - 0.70			17
	> 0.70			19
HC420LA	0.18 - 0.50	420 - 520	470 - 590	17
	0.51 - 0.70			15
	> 0.70			17

EQUIVALENT GRADES

EN 10268	ASTM A607
HC260LA	-
HC300LA	-
HC340LA	Grade 607 - 45*
HC380LA	Grade 607 - 50*
HC420LA	Grade 607 - 55*

DIMENSIONAL MAPPING

HC260LA

Epaisseur \ Largeur	1000	1250	1300
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1	■		
2.2	■		
2.3	■		
2.4	■		
2.5	■		

HC300LA

Epaisseur \ Largeur	1000	1250	1300
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1	■		
2.2	■		
2.3	■		
2.4	■		
2.5	■		

HC340LA

Epaisseur \ Largeur	1000	1250	1300
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1			
2.2			
2.3			
2.4			
2.5			

HC380LA

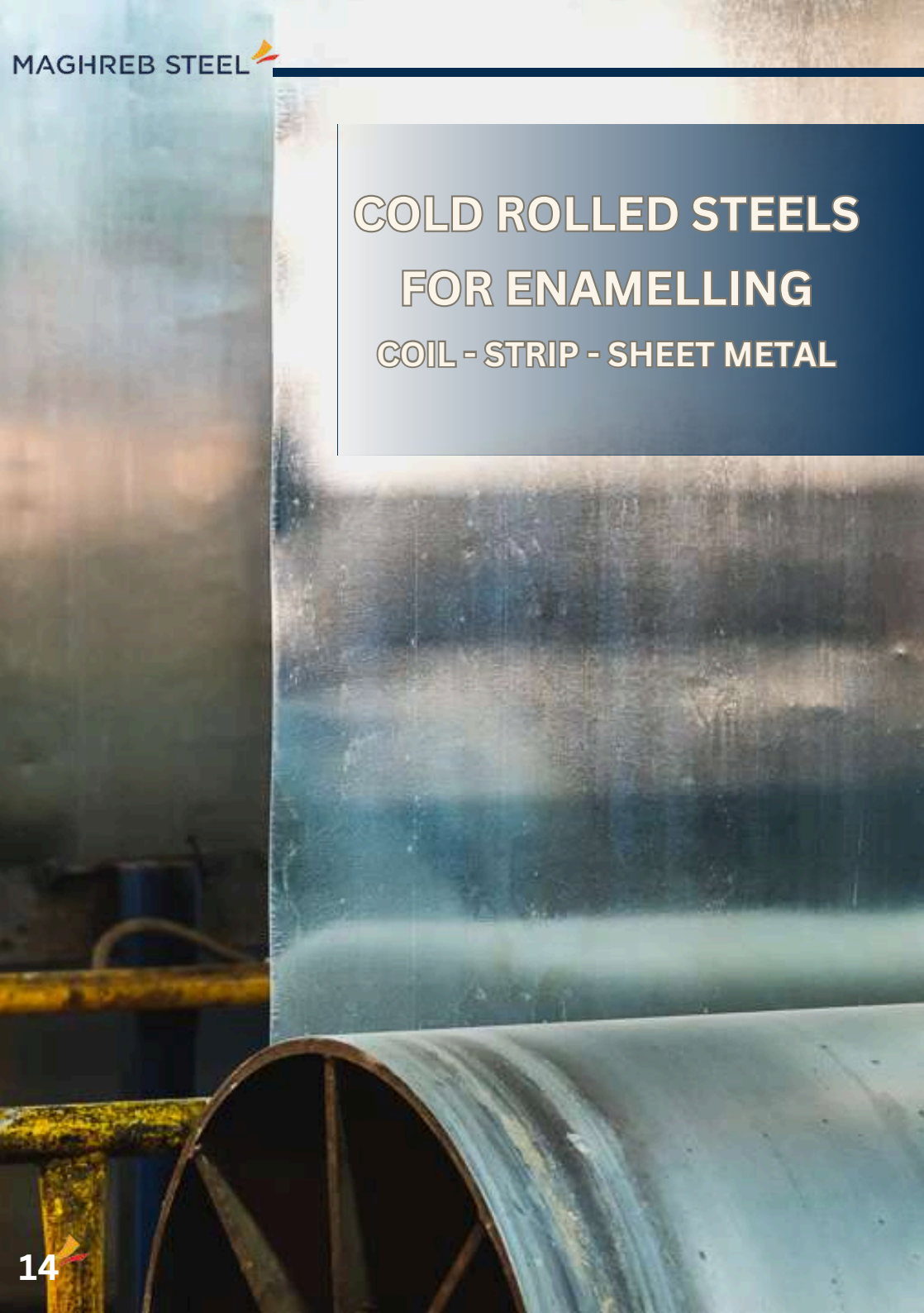
Epaisseur \ Largeur	1000	1250	1300
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1			
2.2			
2.3			
2.4			
2.5			

HC420LA

Epaisseur \ Largeur	1000	1250	1300
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			

COLD ROLLED STEELS FOR ENAMELLING

COIL - STRIP - SHEET METAL



COLD ROLLED STEELS FOR ENAMELING

Enamelled steel is ideal for use in the sanitary industry.which imposes very strict requirements in terms of hygiene and bacteriological resistance.These grades are suitable for light to very deep drawing and glazing tailored to the customer's process..

Scope	Standards	Grade
These steels have of many applications: Home appliance (cooking. washing...). Sanitary (bathtubs. Tubes of shower. sinks...). Panels, architectural For the exterior And the interior of buildings. Transport and infrastructure. Signage. Industry	EN 10209	DC01EK DC04EK DC05EK DC06EK

- **Surface appearance: A or B**
- **Roughness: normal.“0.6 µm < Ra < 1.9 µm”. unless specified when ordering.**

ADDITIONAL OPTIONS:

The following information must be specified at the time of ordering:
- Quantity to be delivered.
-Product designation, surface appearance, oughness, nominal dimensions.reference standards (technical delivery conditions and tolerances on dimensions and shape) and/or any specific customer requirements.
- Any additional requirements in terms of controls.tests and control documents.
- All customer-specific options relating to the EN 10209 standard.
If the customer does not give any indication as to the execution of one of these options from the EN 10209 standard.
MAGHREB STEEL delivers its products according to basic specifications.

CHEMICAL COMPOSITION EN 10209

	≤ C (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≥ Al (%)	≤ Ti (%)
DC01EK	0.08	0.60	0.045	0.050	0.02	-
DC04EK	0.08	0.50	0.030	0.050	0.02	-
DC05EK	0.08	0.50	0.025	0.050	0.02	-
DC06EK	0.02	0.50	0.020	0.050	0.02	0.3

MECHANICAL CHARACTERISTICS / EN 10209

	Épaisseur (mm)	Rp (Mpa)	R_m (Mpa	A (%)	r min
DC01EK	0.18 - 0.50	140 - 310	270 - 390	≥ 26	-
	0.51 - 0.70	140 - 290		≥ 28	-
	> 0.70	140 - 270		≥ 30	-
DC04EK	0.18 - 0.50	140 - 260	270 - 350	≥ 32	-
	0.51 - 0.70	140 - 240		≥ 34	-
	> 0.70	140 - 220		≥ 36	-
DC05EK	0.18 - 0.50	140 - 260	270 - 350	≥ 32	1.5*
	0.51 - 0.70	140 - 240		≥ 34	1.5
	> 0.70	140 - 220		≥ 36	1.5
DC05EK	0.18 - 0.50	120 - 230	270 - 350	≥ 34	1.6*
	0.51 - 0.70	120 - 210		≥ 36	1.6
	> 0.70	120 - 190		≥ 38	1.6

DIMENSIONAL MAPPING

DC01EK

Epaisseur	Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4	■		
0.45	■		
0.5	■		
0.55	■		
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			

DC04EK

Epaisseur	Largeur 1000	1250	1300
0.22			
0.25			
0.3			
0.35			
0.4	■	■	
0.45	■	■	
0.5	■	■	
0.55	■		
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1	■		
2.2	■		
2.3	■		
2.4	■		
2.5	■		

DC05EK

Epaisseur	Largeur 1000	1250	1300
0.22			
0.25			
0.3			
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			

DC06EK

Epaisseur	Largeur 1000	1250	1300
0.22			
0.25			
0.3			
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			

HOT-DIP GALVANIZED STEELS

COIL - STRIP - SHEET METAL

HOT-DIP GALVANIZED STEEL

Continuously dipped galvanized steels have excellent corrosion resistance as well as very good formability.
The coating process makes it possible to deposit thicknesses of zinc which can reach 275 g/m2 (total of both sides).Zinc metal coating is available in a very wide range of steel qualities.from mild steels to structural steels.

Scope	Standards	Grade	Delivery status
These steels present A large fan of applications. so much interior than external. of which THE The most common are: • Construction: wide profiles for roofs and facades cassettes doors doorframe metal ceilings partitions structural elements... • Household appliances: all devices intended for this sector of activity (white and brown) are made of galvanized steel. • Miscellaneous equipment: electrical cabinets.aeraulic parts.air conditioners.road equipment.	**EN 10346**	**DX51D+Z** **DX52D+Z** **DX53D+Z** **DX54D+Z** **S220GD** **S250GD** **S280GD** **S320GD** **S350GD** **S420GD** **S550GD**	Products can be delivered with certificates type 3.1/ 2.2 or 2.2cc in accordance with EN 10204
	ASTM A653/A653M	**CS TYPE B** **SS33** **SS40** **SS50**	

- **Surface appearance: A / B or C.**
- **Chemical treatment: passivation (C)**
- **Thickness of the zinc layer: according to customer requirements.**

ADDITIONAL OPTIONS:

The following information must be specified at the time of ordering:
- Quantity to be delivered.- Product designation.surface appearance.roughness.nominal dimensions and reference standards (technical delivery conditions and tolerances on dimensions and shape) and/or any specific customer requirements.
- Any additional requirements in terms of controls.tests and control documents.
- All customer-specific options relating to the EN 10346 standard. If the customer does not give any indication as to the execution of one of these options from the EN 10346 standard.

MAGHREB STEEL delivers its products according to basic specifications.

CHEMICAL COMPOSITION EN 10346

	≤ C (%)	≤ Si (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≥ Ti (%)
DX51D + Z	0.18	0.5	1.2	0.12	0.045	0.3
DX52D + Z	0.12	0.5	0.6	0.10	0.045	0.3
DX53D + Z	0.12	0.5	0.6	0.10	0.045	0.3
DX54D + Z	0.12	0.5	0.6	0.10	0.045	0.3

	≤ C (%)	≤ Si (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≥ Ti (%)
S220GD + Z	0.2	0.045	1.7	0.1	0.045	-
S250GD + Z	0.2	0.045	1.7	0.1	0.045	-
S280GD + Z	0.2	0.045	1.7	0.1	0.045	-
S320GD + Z	0.2	0.045	1.7	0.1	0.045	-
S350GD + Z	0.2	0.045	1.7	0.1	0.045	-
S390GD + Z	0.2	0.045	1.7	0.1	0.045	-
S420GD + Z	0.2	0.045	1.7	0.1	0.045	-
S450GD + Z	0.2	0.045	1.7	0.1	0.045	-
S550GD + Z	0.2	0.045	1.7	0.1	0.045	-

CHEMICAL COMPOSITION / ASTM A653/A653M

	≤ C (%)	≤ Mn (%)	≤ P (%)	≤ S (%)	≤ Cu (%)	≤ Ni (%)	≤ Cr (%)	≤ Mo (%)	≤ Ti (%)
CS TYPE B	0.02-0.15	0.60	0.030	0.035	0.25	0.20	0.15	0.06	0.025

MECHANICAL CHARACTERISTICS EN 10346

	Épaisseur (mm)	Rp (Mpa)	Rm (Mpa)	A (%)
DX51D + Z	0.20 - 0.35	≥ 140	270 - 500	≥ 15
	0.35 - 0.50			≥ 18
	0.51 - 0.70			≥ 20
	0.71 - 3.00			≥ 22
DX52D + Z	0.20 - 0.35	140 à 360	270 à 420	≥ 19
	0.35 - 0.50			≥ 22
	0.51 - 0.70			≥ 24
	0.71 - 3.00			≥ 26
DX53D + Z	0.20 - 0.35	140 à 260	270 à 380	≥ 13
	0.35 - 0.50			≥ 26
	0.51 - 0.70			≥ 28
	0.71 - 3.00			≥ 30
DX54D + Z	0.20 - 0.35	120 - 220	260 - 350	≥ 30
	0.35 - 0.50			≥ 32
	0.51 - 0.70			≥ 34
	0.71 - 3.00			≥ 36

	Epaisseur(mm)	Rp (Mpa)	Rm (Mpa)	A (%)
S220GD + Z	0.20 - 0.35	≥ 220	≥ 300	≥ 13
	0.35 - 0.50			≥ 16
	0.51 - 0.70			≥ 18
	0.71 - 3.00			≥ 20
S250GD + Z	0.20 - 0.35	≥ 250	≥ 330	≥ 12
	0.35 - 0.50			≥ 15
	0.51 - 0.70			≥ 17
	0.71 - 3.00			≥ 19
S280GD + Z	0.20 - 0.35	≥ 280	≥ 360	≥ 11
	0.35 - 0.50			≥ 14
	0.51 - 0.70			≥ 16
	0.71 - 3.00			≥ 18
S320GD + Z	0.20 - 0.35	≥ 320	≥ 390	≥ 10
	0.35 - 0.50			≥ 13
	0.51 - 0.70			≥ 15
	0.71 - 3.00			≥ 17
S350GD + Z	0.20 - 0.35	≥ 350	≥ 420	≥ 9
	0.35 - 0.50			≥ 12
	0.51 - 0.70			≥ 14
	0.71 - 3.00			≥ 16

MECHANICAL CHARACTERISTICS EN 10346

	Epaisseur(mm)	Rp (Mpa)	Rm (Mpa)	A (%)
S390GD + Z	0.20 - 0.35	≥ 390	≥ 460	≥ 9
	0.35 - 0.50			≥ 12
	0.51 - 0.70			≥ 14
	0.71 - 3.00			≥ 16
S420GD + Z	0.20 - 0.35	≥ 420	≥ 480	≥ 8
	0.35 - 0.50			≥ 11
	0.51 - 0.70			≥ 13
	0.71 - 3.00			≥15
S450GD + Z	0.20 - 0.35	≥ 450	≥ 510	≥ 7
	0.35 - 0.50			≥ 10
	0.51 - 0.70			≥ 12
	0.71 - 3.00			≥14
S550GD + Z	0.20 - 0.35	≥ 550	≥ 560	-
	0.35 - 0.50			-
	0.51 - 0.70			-
	0.71 - 3.00			-

MECHANICAL CHARACTERISTICS EN 10346

	Rp (Mpa)	Rm (Mpa)	A (%)
CS TYPE B	205-380	-	≥ 20

ZINC COATING

Désignation	GRAMMAGE DE ZINC (g/m²)	ÉPAISSEUR DU REVÊTEMENT (µm PAR FACE)
Z80	80	5.5
Z100	100	7.0
Z140	140	10.0
Z200	200	14.0
Z225	225	16.0
Z275	275	20.0

FLOWERING

Spangle Free | **Minimized (M)** | **Normal (N)** | **Large** (L)

MECHANICAL CHARACTERISTICS EN 10346

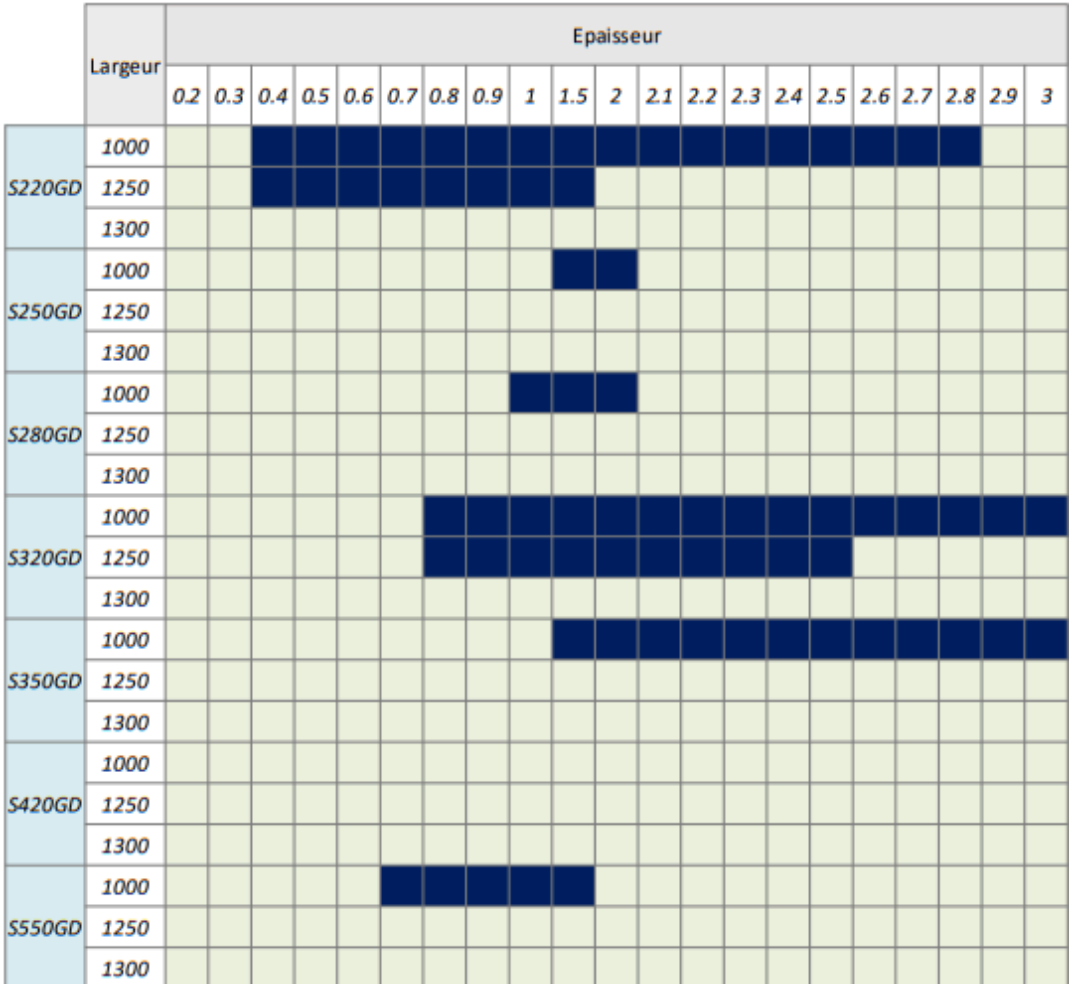
Epaisseur	DX51D Largeur 1000	1250	1300
0.2	■	■	
0.25	■	■	
0.3	■	■	
0.35	■	■	
0.4	■	■	
0.45	■	■	
0.5	■	■	
0.55	■	■	
0.6	■	■	
0.65	■	■	
0.7	■	■	
0.75	■	■	
0.8	■	■	
0.85	■	■	
0.9	■	■	
0.95	■	■	
1	■	■	
1.05	■	■	
1.1	■	■	
1.2	■	■	
1.3	■	■	
1.4	■	■	
1.5	■	■	
1.6	■	■	
1.7	■	■	
1.8	■	■	
1.9	■	■	
2	■	■	
2.1	■	■	
2.2	■	■	
2.3	■	■	
2.4	■	■	
2.5	■	■	
2.6	■	■	
2.7	■	■	
2.8	■	■	
2.9	■	■	
3	■	■	

Epaisseur	DX52D Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4			
0.45	■	■	
0.5	■	■	
0.55	■	■	
0.6	■	■	
0.65	■	■	
0.7	■	■	
0.75	■	■	
0.8	■	■	
0.85	■	■	
0.9	■	■	
0.95	■	■	
1	■	■	
1.05	■	■	
1.1	■	■	
1.2	■	■	
1.3	■	■	
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3			

Epaisseur	DX53D Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4			
0.45			
0.5			
0.55			
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3			

Epaisseur	DX54D Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7			
0.75			
0.8			
0.85			
0.9			
0.95			
1			
1.05			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3			

MECHANICAL CHARACTERISTICS EN 10346



	Largeur	Epaisseur																			
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
S220GD	1000			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
	1250			■	■	■	■	■	■	■	■											
	1300																					
S250GD	1000										■	■										
	1250																					
	1300																					
S280GD	1000									■	■	■										
	1250																					
	1300																					
S320GD	1000							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	1250							■	■	■	■	■	■	■	■	■	■					
	1300																					
S350GD	1000										■	■	■	■	■	■	■	■	■	■	■	■
	1250																					
	1300																					
S420GD	1000																					
	1250																					
	1300																					
S550GD	1000						■	■	■	■	■											
	1250																					
	1300																					

MECHANICAL CHARACTERISTICS/ASTM A653/A653M

Epaisseur	CS TYPE B Largeur 1000	1250	1300
0.2	■		
0.25	■		
0.3	■		
0.35	■	■	
0.4	■	■	
0.45	■	■	
0.5	■	■	
0.55	■	■	
0.6	■	■	
0.65	■	■	
0.7	■	■	
0.75	■	■	
0.8	■	■	
0.85	■	■	
0.9	■	■	
0.95	■	■	
1	■	■	
1.05	■	■	
1.1	■	■	
1.2	■	■	
1.3	■	■	
1.4	■	■	
1.5	■	■	
1.6	■	■	
1.7	■	■	
1.8	■		
1.9	■		
2	■		
2.1	■		
2.2	■		
2.3	■		
2.4	■		
2.5			
2.6			
2.7			
2.8			
2.9			
3			

Epaisseur	S533 Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4			
0.45			
0.5			
0.55			
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3			

Epaisseur	S540 Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4	■		
0.45	■		
0.5	■		
0.55	■		
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2	■		
1.3	■		
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3			

Epaisseur	S550 Largeur 1000	1250	1300
0.2			
0.25			
0.3			
0.35			
0.4	■		
0.45	■		
0.5	■		
0.55	■		
0.6	■		
0.65	■		
0.7	■		
0.75	■		
0.8	■		
0.85	■		
0.9	■		
0.95	■		
1	■		
1.05	■		
1.1	■		
1.2	■		
1.3	■		
1.4	■		
1.5	■		
1.6	■		
1.7	■		
1.8	■		
1.9	■		
2	■		
2.1	■		
2.2	■		
2.3	■		
2.4	■		
2.5	■		
2.6			
2.7			
2.8			
2.9			
3			


MAGHREB STEEL

MAGHREB


STEEL

MAGHREB STEEL

We are at your disposal to assist you. Our specialized teams and technicians are ready to support and guide you throughout your project. Feel free to visit us at:

RN9 Km 10 (Tit Mellil Aeroclub) Ahl Loughlam
BP: 3553 CASABLANCA 20600
Phone: +212 (0) 522 76 25 00 Fax: +212 (0) 522 76 25 01/03
e-mail: maghrebsteel@maghrebsteel.ma
www.maghrebsteel.ma

IMANOR CERTIFICATION afnor CERTIFICATION

NM ISO 9001 v 2008
NM ISO 45001 v 2007
NM ISO 14001 v 2004