

w w w . k a n d i l . c o m

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Kandil Steel

Your Solid Steel Partner

C o m p a n y P r o f i l e

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CHAIRMAN MESSAGE



Our world is changing quickly and dramatically! How can steel companies survive such a severe and rough era if they don't start doing things differently? Kandil with all its history and legacy started the process of re-inventing itself as a modern, flexible, dynamic and responsive company that will put **Innovation** as its main drive for the future. Innovation in such a conservative **business where any new idea** or change in product or production process may seem quite challenging.

The real mission is to help our people to understand the need for transformation and development and motivate them to pursue such a dream of creating an innovative flat steel company. This team will follow the most important path to creativity and novelty which is:

A Knowing our Clients”.

Our sales, marketing, R&D, quality, supply chain, production and finance teams , will indulge in our customer business and jointly analyze their processes, products and market conditions , trying to come up with solutions and ideas that will help our client compete, succeed and prosper. Such solutions maybe in making: new product, customizing specifications & developing more efficient logistical system. We will study the entire relationship in order to attain the lead and the formula that will flourish our mutual success. We wish our effort and determination to assist, support, and serve our clients will help them; reduce cost, push productivity, improve efficiency, create new products and eventually be their own market leaders.

Regards,

Chairman Signature:

Amy Kandil

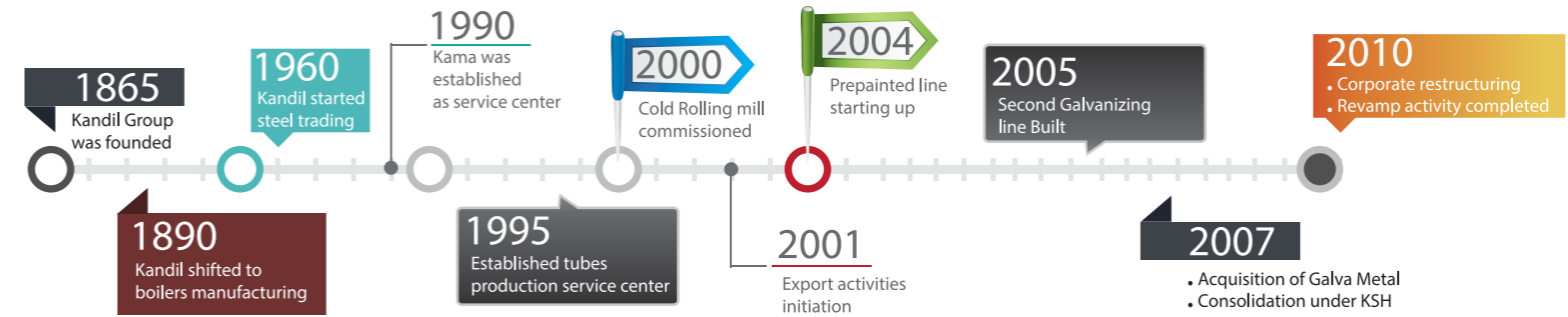
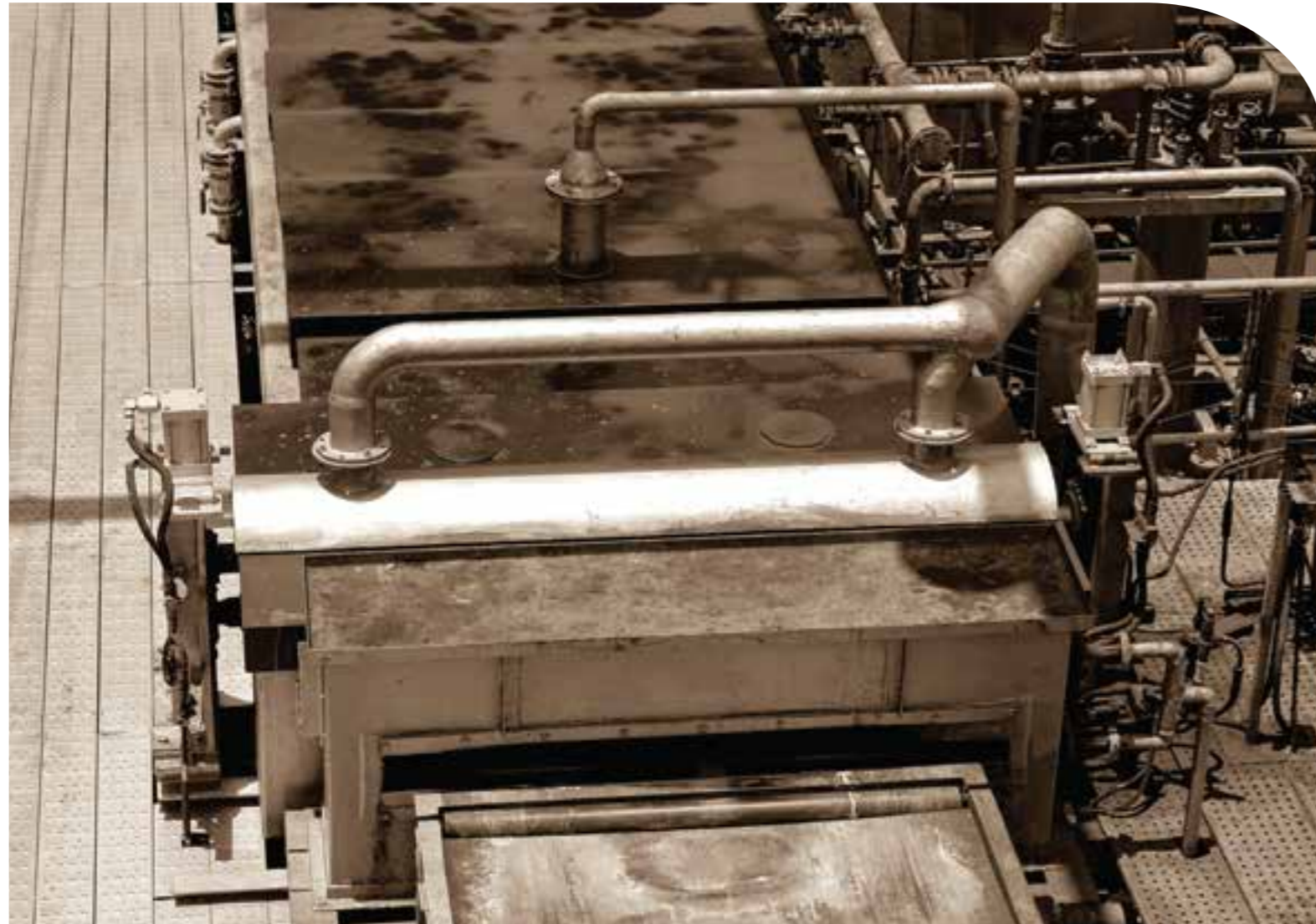
A handwritten signature in black ink, appearing to be 'AK' with a stylized flourish.

OUR HISTORY



[About Us](#) | [History](#)

SINCE 1865



OUR HISTORY

Kandil opened its doors to the market since 1865, starting by manufacturing manual agricultural machinery which later on were changed to semi-automatic ones, then on to boilers in the early 1900's. Passing through several phases, Kandil finally focused on flat steel in the 1950s after Mr. Mohy Kandil finished Economics degree in France and then became a genuine steel player in building the Egyptian industries.



He started trading in flat steel, initiating a small workshop for processing steel sheets while concentrating mainly on prime quality material which gave the family a strong presence and reputation in the Egyptian Market.

In the early 1980's, the family started the first modern flat steel service center KAMA in 10th of Ramadan city. Maintaining quality and reliability together with investing in modern western production lines established the brand as the leader in supply of flat steel for all manufacturing and construction sectors.

By the year 2000 Kandil Steel initiated the first privately owned cold rolling mill in Egypt followed by its first Galvanizing line in the year 2003. And since then, Kandil kept investing in a new production line every year till it acquired its main competitor Galvmetal in the year 2007.

Kandil built its name as a reliable Cold Rolled, Galvanized & Coated flat steel supplier, in both the European and Middle Eastern markets. The company's current production capacity is about 600,000 tons/Year, almost 40% of which are dedicated to export.



OUR Vision

Bring to the world a different approach in flat steel supply, inspired by a true understanding of our clients' markets, resulting in value products customization that will promote ultimate mutual success .

OUR Mission

Kandil Steel is striving to produce steel products that are differently developed to ensure customer satisfaction, through continuously attempting to better understand the market, optimize mutual success, by sustaining our core competencies of internal processes efficiency and investing in developing our employees who always aim in pursuing collaborative efforts , constant dedication, perseverance and integrity in doing business.



Our Values

In every walk of life, people have different passions, goals, ambitions and ideologies. Success is achievable, through persistence, and sustaining values which is what we highly preach and enforce at Kandil. There are 5 main characteristically explored values that we endorse which are:

- Integrity
- Customer Oriented
- Team Work
- Creativity
- Daring

Our Facilities



About Us | Facilities

Our Facilities

Kandil Steel incorporation is the holding company for two facilities;

KAMA Coating and Manufacturing (10th of Ramadan city – Egypt):

Its activities is producing Pickled & Oiled, Cold-Rolled, Galvanized and Pre-Painted Steel.

Galvmetal (Obour city – Egypt):

Its activities is producing Pickled & Oiled, Cold-Rolled and Galvanized Steel.

Kama for Manufacturing (10th of Ramadan city – Egypt):

Service center for producing all flat steel coils, tubing, downstream manufacturing.

Our Products



Our Products

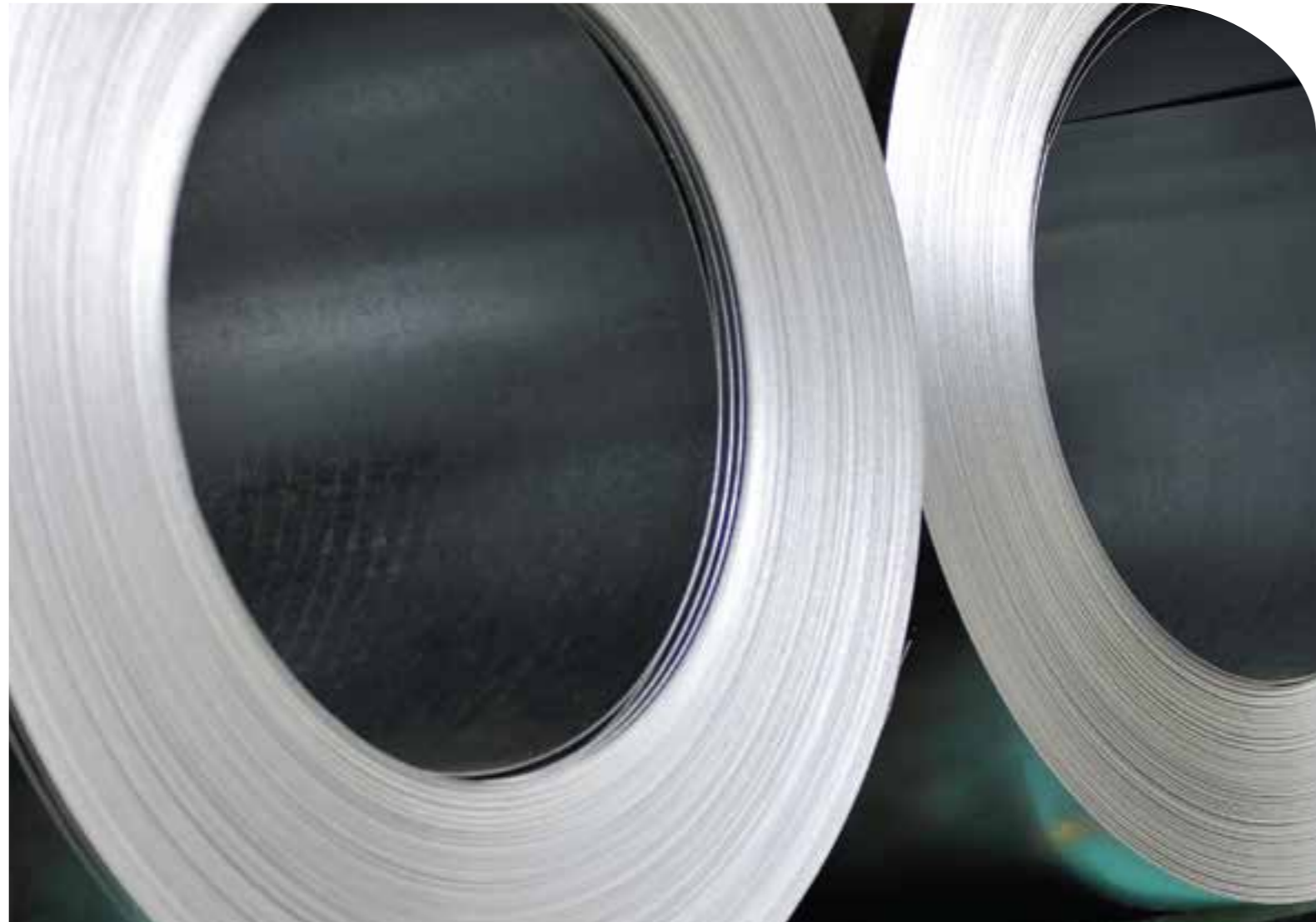
HOT ROLLED PICKLED
COLD ROLLED
COLD ROLLED BLACK ANNEALED
GALVANIZED
PRE-PAINTED
KANDIL THIN ORGANIC COATING

COLD ROLLED STEEL

Cold Rolled Steel

Product Features:
1- Outstanding Surface Quality and High Dimensional Accuracy.
2- Suitability for Metallic Coating.
3- Weldability: Cold Rolled Steels can be joined using virtually any accepted welding practice.

Application Fields:
Cold-rolled steel sheets and Coils are used in manufacturing automotive body parts, home electrical appliances (ovens, washing machines, refrigerators etc.), air conditioning units, electrical panels, switchboards and metal furniture as well as a wide range of other products.



Home appliances



Electric blast panels



Car body



Utensils



Computer case



Automotive parts



Pipes



Metal furniture



Fuel tank

Filter

Motor & Stator



CR Quality Specifications (Grades & Standard):

Quality	Classification	Standards				
		EN10130	ASTM A 1008	DIN1623	JIS G3141	
Drawing	Commercial	DCO1	CS (A366)	St12	SPCC	
	Drawing	DCO3	DS (A619)	St13	SPCD	
	Deep Drawing	DCO4	DDS (A620)	St14	SPCE	
	Enhanced Deep Drawing	DCO5			SPCF	
	Extra Deep Drawing (non aging)	DCO6	EDDS		SPCG	
Quality	Classification	EN10025	ASTM A1008	DIN 17100	JIS G 3101	
Structural	Commercial	S235/S235JR	Grade 33	ST37	SS330	
	Medium Strength	S275	Grade 40	ST44	SS400	
	High Strength	S355JR/S355JO	Grade 50	ST52	SS540	
		EN10025-5			JIS G 3125	
	Corten Steel (Weathering steel)	S355JOW			SPA-C	
		Classification	EN10168	ASTM 1008		
	High Strength low Alloy (HSLA)**	HC420LA	Grade 60			
Quality	Classification	EN10209	ASTM A424	DIN1623-3	JIS G 3133	
Enameling	Drawing	DCO1EK	Type-I	EK2	VE02	
	Deep Drawing	DCO4EK	Type-II	EK4	VE04	
	Extra Deep Drawing	DCO6EK				
Quality	Classification	EN10129				
Electrical (Silicon)	*CRNGO Semi processed	M1050-50D				
	*CRNGO Semi processed	M1000-65D				

** Other grades of low alloy steels may be produced upon customer request.



Dimensions & Sizes Range of CR Products:

	Wider Range		Narrow Range	
Cold Rolled Coils	Min.	Max.	Min.	Max.
Thickness (mm)	0.18	3	0.20	3.0
Width (mm)	600	1300	13	599
Inside Diameter (mm)	300	508 & 610	300	508
Outer Diameter (mm)	1000	2000	800	1800
COLD ROLLED SHEETS (Cut to length form)	Min.	Max.		
Thickness (mm)	0.18	3		
Width (mm)	200	1300		
Length (mm)	300	6000		

** Tolerances are according to Euro Norm, unless stated by the customer.

Cold Rolled Black Annealed

Cold Rolled Black Annealed
Also known as **Blue Steel**

Black Annealed Properties:

Cold Rolled Black Annealed (CRBA) also known as Blue Steel is cold rolled sheets that have been oxidised by annealing in a special installation to produce a very thin magnetite layer (Fe₃O₄) on the surface (less than 1 µm thick) for more protection.

Advantages:

Cold Rolled Black Annealed provide protection against corrosion for parts whose surface cannot be protected by normal painting or any metallic coating processes. The magnetite layer can withstand moderate bending and drawing operations. The sheet surface is very clean and retains its attractive appearance during storage.

Standards:

According EN 10130 & EN 10131 and As per Customer Requirement.

Applications:

The main areas of use are:

- All kinds of Steel pipes and tubes (Stove pipes)
- Food contact other than packaging
- Cake and biscuit moulds
- Baking trays
- Lining of industrial bread ovens
- Furniture & construction

- Economical general items where needn't require further painting.

Cold Rolled Black Annealed are suitable for food contact, under certain conditions laid down in the Regulation (EC) No. 1935/2004 and the French standard NF A 36-714.

Please contact us for further information on this subject

Recommendations for use:

The processing conditions for Cold Rolled Black Annealed are similar to those for cold forming.

Corrosion resistance (salt spray test):

Corrosion resistance is greater than that of uncoated cold rolled steel by about 6 times extra protection.

1 x CR : 6 x BS : 70 x GI

Electro-plating:

Could performing electro plating after scale layer removal through acidic solution process

Electro-static painting:

Cold Rolled Black Annealed is moderate performance of direct surface painting either normal or electro static

Surface quality:

Cold Rolled Black Annealed can be supplied with or without oil film.

PRODUCT GRADES AND DIMENSIONS

Steel Grade of Cold Rolled Black Annealed	Abbreviation	Dimensions (mm)			
		Min Thickness	Max Thickness	Min Width	Max Width
CRBA Full Hard (FH)	CRBAFH	0.35	1.5	600	1250
CRBA Half hard (HH)	CRBAHH	0.35	1.5	600	1250
CRBA ¼ Hard (QH)	CRBAQH	0.35	1.3	600	1250
CRBA Soft (SF)	CRBASF	0.35	1.3	600	1250

MECHANICAL PROPERTIES

Product type	Hardness (HRB)
CRBA Full Hard (FH)	85 and over
CRBA Half hard (HH)	75 to 84
CRBA ¼ Hard (QH)	65 to 74
CRBA Soft (SF)	50 to 64

CHEMICAL COMPOSITION (%)

Element	Abbreviation	%C	%Mn	%P	%S	%Si
CRBA Full Hard (FH)	CRBAFH	0.17 max	1.4	0.035 max	0.035 max	0.04 max
CRBA Half hard (HH)	CRBAHH	0.17 max	1.4	0.035 max	0.035 max	0.04 max
CRBA ¼ Hard (QH)	CRBAQH	0.12 max	0.6	0.045 max	0.045 max	0.04 max
CRBA Soft (SF)	CRBASF	0.12 max	0.6	0.045 max	0.045 max	0.04 max

FABRICATION PERFORMANCE

1 = Limited 5 = Excellent and NR= not recommended

Quality	Drawing	Pressing	Bending	Roll Forming	Welding	Painting
CRBA Full Hard (FH)	NR	4	1	1	5	4
CRBA Half hard (HH)	NR	4	2	1	5	4
CRBA ¼ Hard (QH)	4	3	4	4	5	3
CRBA Soft (SF)	5	3	5	4	5	3

SURFACE FINISH

Matt finish with different colors:

Color	ERP Code	Appearance	AVAILABLE FORMS
Dark Grey	G		Coil
Black	B		Slit coil
Grayish Blue	S		Narrow coil
Black TOC	K		Sheet



GALVANIZED STEEL

Galvanized Steel

Product Features:

- 1- Corrosion Resistance to the Atmosphere.
- 2- Formability: excellent zinc adherence and flake resistance due to the thin Fe-Zn layer.
- 3- Paintability: Galvanized steel is suitable for coating and producing pre-painted steel, and electrostatic paint.

Application Fields:

Galvanized Steel is used in industry to protect against corrosion.

- 1- Hot-Dip Galvanized Steel For Forming: Ex. Home appliances, and air conditions.
- 2- Hot-Dip Galvanized Steel for Structural Applications: Guaranteed minimum strength.



Grades & Standards of Galvanized Steel:

Designation & Steel Grade	EN 10346-2009, EN 10327-2004, EN 10142-2000	DIN 17162	ASTM A653	JIS G3302
Low Carbon Steel For Cold Forming	DX51D+ Z	St 02Z	CS	SGCH
	DX52D+ Z	St 03Z, St 04Z	FS	
	DX53D+ Z	St 05Z	DDS	
	DX54D+ Z	St 06Z		SGCD1

Designation & Steel Grade	EN 10346-2009, EN 10326-2004, EN 10147-1995	DIN 17162	ASTM A653	JIS G3302
Structural Steel	S220GD+Z	St E220-2Z	SS Grade 230 (33)	SGCC, SGHC
	S250GD+Z	St E250-2Z	SS Grade 255 (37)	SGC340, SGH340
	S280GD+Z	St E280-2Z	SS Grade 275 (40)	SGC400, SGH400
	S320GD+Z	St E320-2Z		SGC440, SGH440
	S350GD+Z	St E 350-2Z	SS Grade 340 (50)	SGH490, SGC490
	S550GD+Z		SS Grade 550 (80)	SGC570



Dimensions & Sizes Range of Galvanized Products:

Wider Strip Range			Narrow Strip Range (slitted & narrow coil)	
Galvanized Coils	Min.	Max.	Min.	Max.
Thickness (mm)	0.20	3	0.2	3.0
Width (mm)	600	1250	13	599
Inside Diameter (mm)	508	610	300	610
Outer Diameter (mm)	1000	2000	500	1200
GALVANIZED SHEETS (Cut to length)			Min.	Max.
Thickness (mm)			0.2	3
Width (mm)			200	1250
Length (mm)			300	6000

** Tolerances are according to Euro norm, unless stated by the customer.

Surface Finish

- Spangle Type:
- Normal Spangle: Spangle visually appears with normal size.
 - Minimized Spangle : Spangle appears with reduced size, sometimes not visible.
 - Zero Spangle: Spangle is not visible.

Surface Quality:

- As per the EN 10346 Standard the following types of surfaces are achievable:
- Coated Surface (A)
 - Improved Surface (B)

Surface Treatment:

- Chromate
- Oil
- Thin Organic coating (colored/ colorless)
 1. More corrosion resistance
 2. Anti-finger print quality (AFP)
 3. Excellent post paint ability
 4. Adhesion to PU foams
 5. High lubricity for formability

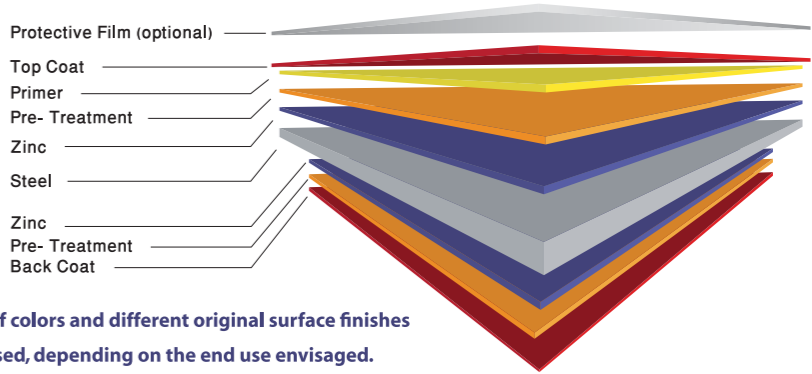
PRE-PAINTED

Pre-Painted

Kandil Pre-Painted steel products are used in all sectors of industry. In building and construction, profiles are used for wall cladding and roofing, and also for applications such as suspended ceilings, lighting etc. In general industry, these products have a variety of applications, including metal furniture, HVAC (Heating, Ventilating, Air Conditioning) and many others. Brown goods (casings for Hi-Fi, VCR, DVD, electronic and computer equipment) are another successful field of application for Pre-Painted steel products. This variety of uses is a result of three key material properties – strength, good formability and flexible surface design.



Kandil products specs



A wide range of colors and different original surface finishes are proposed, depending on the end use envisaged.

Kandil pre-painted steel products are multi-talented materials that meet end-user requirements and needs. We design the surface properties and colours to come across very specific technical and aesthetic requirements. It is served with various paints that are applied to a metallic substrate as a part of a continuous process, which ensures optimum adhesion of the coating and improved corrosion resistance of the underlying steel substrate.

In pre-painted steel, the substrate is usually galvanized steel. The choice of the paint system depends on the environmental conditions to which the product will be exposed and the technical properties required. Kandil pre-painted steel products are available in a rich diversity of colors (a variety of color options are available) and surface appearances. Nevertheless, each product has its own specific properties and applications. The appropriate choice is therefore crucial and should be made in close collaboration with Kandil technical and sales teams.

Today, Pre-Painted Steel offers exceptional economic and technological advantages, which explain its extraordinary success story in industry.



KANDIL SPECIAL COLORS & PAINT MIXING UNIT

Kandil colors your imagination, just keep dreaming:

Kandil Group with much pride through its advanced paint mixing unit using the highest technology delivers its products with both standard and non-standard colors. The painting mixing unit is highly characterized with:

- Producing any non-standard color.
 - Imitate any customer sample.
 - Production of small batches in very short time. (Reduced delivery time).
 - Create Special effect and customized colors.
 - Once the customer offers his sample, the technical team of the mixing unit produces a master sample for approval with the customer.
- Then all data is saved and serves as a reference sample in a special file for future production if extension, updates or repairs are required either for top or back coat.

Special Effect Product

Structured Clear Coat:

The product concept is based on a multi-layer system. This system is a combination of a structured transparent or colored clear over colored base coat.

This combination gives a lot of different and very nice aesthetic properties.

Properties:

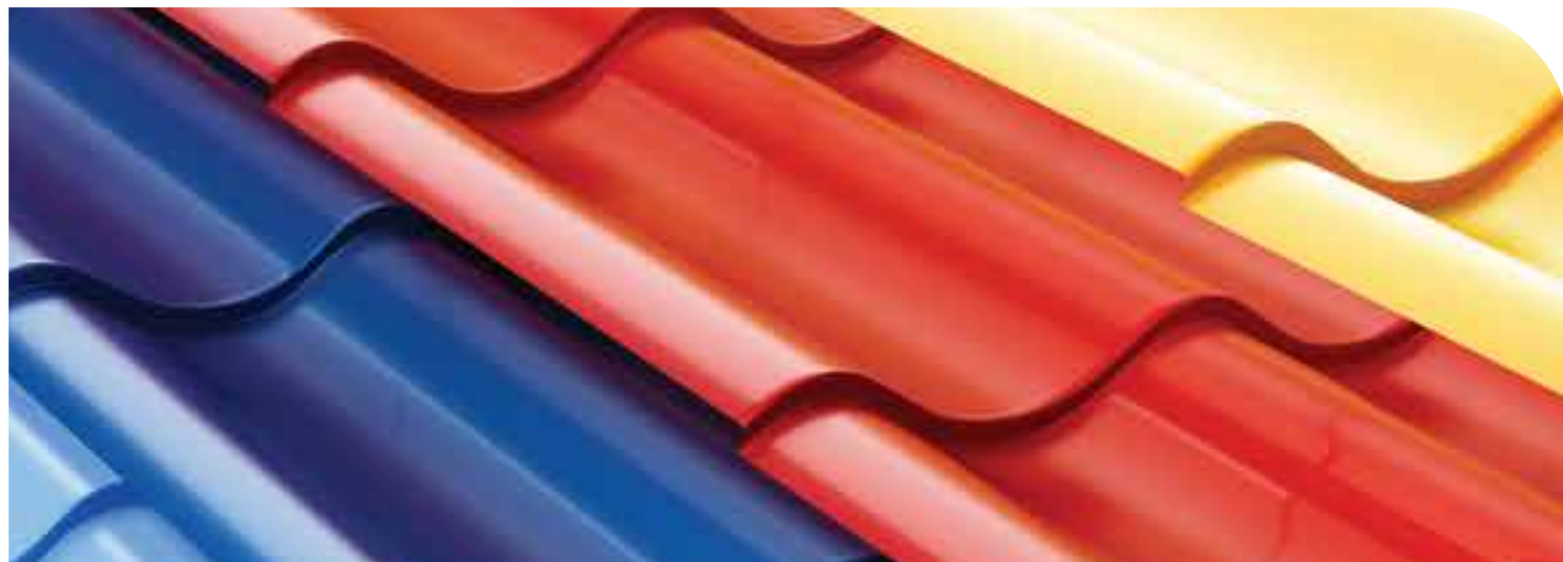
Exterior durability	Excellent
Surface hardness	Excellent
Scratch and abrasion resistance	Excellent

Wrinkle finish aspect:

This product, because of its highly matt aspect, is especially designed for roofing market. The flexible polyester matrix allows huge deformation compatible with tile profiles.

Properties:

Exterior durability	Excellent
Deep mat under every angle.	
Surface hardness and abrasion resistance	Excellent



1-Size Range

Thickness	Width	Coil ID	Coil Weight
0.30 to 0.8 mm	600: 1250 mm	508/610 mm	2: 7 ton

2-Coating range

Kandil produces organic coated steel with costumed metallic coating thickness and paint thickness as tabled below

Zinc weight	Top coat		Back coat film
	Primer film	Top paint film	
80 →275 GSM	3 - 7 μm	18 - 25 μm	5 - 15 μm

3-Substrate Steel Grade Range

Substrate group	EN 10346	ASTM A755	JIS G3302
A- PP Galvanized Substrate			
Galvanized On Coldrolled Low Carbon Steel	DX51D+Z	CS	CGCH
	DX52D+Z	FS	CGCD1
	DX53D+Z	DDS	
Galvanized On Coldrolled Structural Steel	S220GD+Z	SS grade 230(33)	SGCC
	S250GD+Z	SS grade 255(37)	SGC340
	S280GD+Z	SS grade 275(40)	SGC400
	S320GD+Z		SGC440
	S350GD+Z	SS grade 340(50)	SGC490
B- PP Cold Rolled Substrate			
Substrate group	EN 10130	ASTM	JIS 3141
Cold Rolled Low Carbon Steel	DCO1	CS (A 366)	SPCC
	DCO3	DS (A 619)	SPCD
	DCO4	DDS (A 620)	SPCE

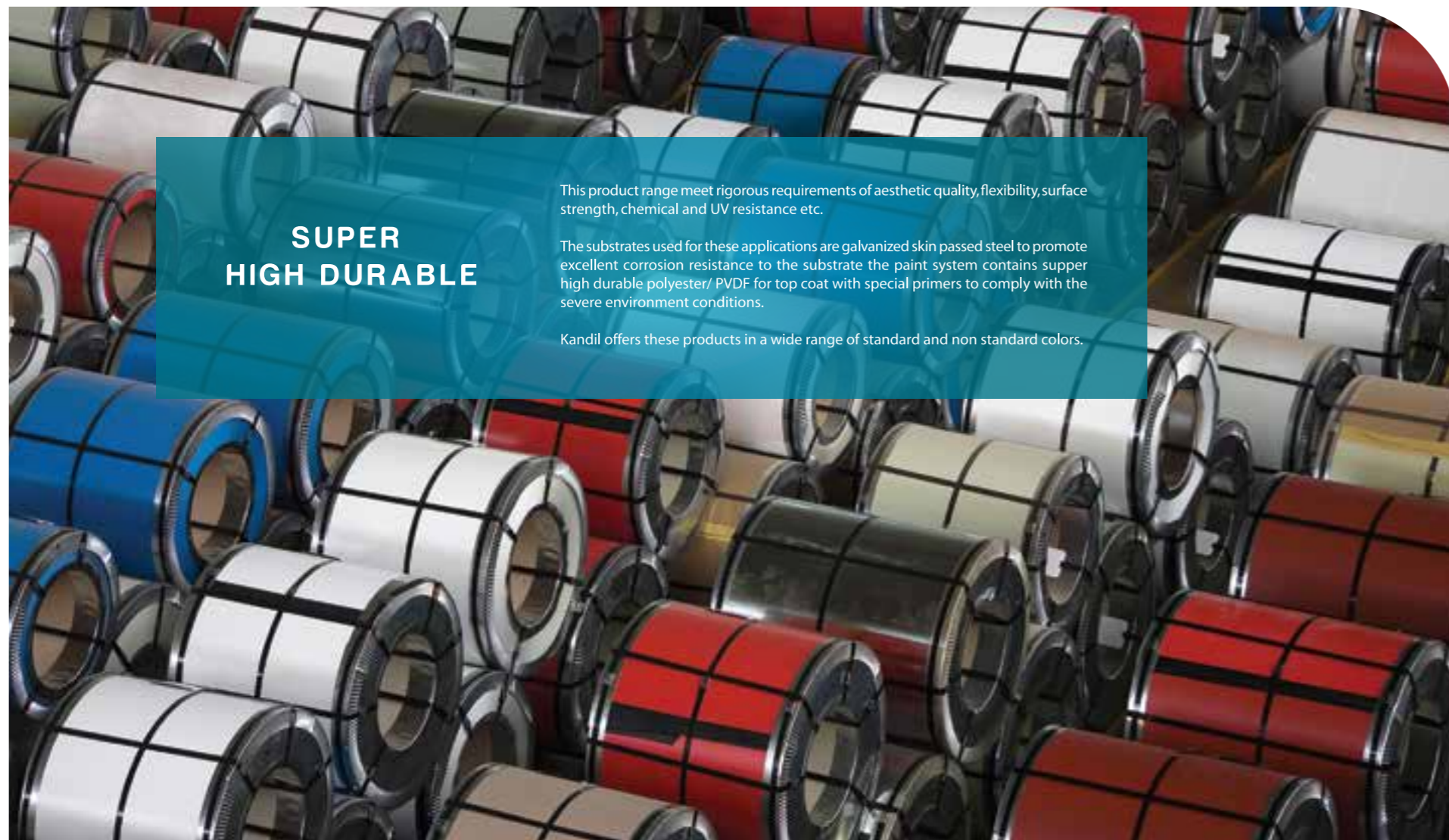
Pre-Painted Products



Pre-Painted Products

- 1- SUPER HIGH DURABLE
- 2- HIGH DURABLE
- 3- STANDARD PRODUCTS
- 4- INDOOR & HOME APPLIANCES USE

DURABLE



SUPER HIGH DURABLE

This product range meet rigorous requirements of aesthetic quality, flexibility, surface strength, chemical and UV resistance etc.

The substrates used for these applications are galvanized skin passed steel to promote excellent corrosion resistance to the substrate the paint system contains supper high durable polyester/ PVDF for top coat with special primers to comply with the severe environment conditions.

Kandil offers these products in a wide range of standard and non standard colors.

TECHNICAL PROPERTIES



Property	Brief description	Range	Range
Top coat (Dry thick.)	High Durable Polyester top coat /PVDF dry film	20 µm	Products are in compliance with EN 10169 EN 13523-1
Primer (Dry thick.)	Epoxy dry film under top/back coat	7 µm	
Back coat (Dry thick.)	Polyester / PVDF back film	12 µm	
Coating Formability (T-bend test)	is determined by the minimum bending radius at which no cracks are visible on the coating	≤ 2T	ISO 1519 EN 13523-7
Impact resistance	the paint's resistance to cracking and/or peel-off after rapid deformation of the organic coated	15 Joule	ISO 6272 EN 13523-5
Pencil hardness	Is assessed by using a range of pencils special method. The value is given by the hardness of the last pencil that does not scratch the paint surface.	Min H	ASTM D3363 EN 13523-4 ISO 15184
Gloss	The specular reflection (gloss) of the coil coated surface is measured using a gloss meter and usually at an angle of 60	From 50 to 80	EN 13523-2
Corrosion resistance Salt spray test	Is evaluated by exposing a test specimen to a salt fog at 35°C for a given time. Evaluation criteria after the exposure time:	1000 hours with Z200	ISO 7253, ISO 4628-2 EN ISO 9227 EN 13523-8
Resistance to accelerated UV weathering (QUV- A)	UV weathering is evaluated by exposing an organic coated sample to accelerated weathering (UV, humidity and temperature) for 2,000 hours Evaluation is based on color change and gloss retention.	RUV4	ISO 4892-3 EN 13523-10 ASTM D4587 EN 10169-2

"Warranty conditions are applied due to client's contract terms"

"تطبق شروط الضمان وفق بنود العقد مع العميل"



HIGH DURABLE

This product range meet outdoor severe conditions (harsh) requirements of aesthetic quality, flexibility, surface strength, chemical and UV resistance etc.

The substrates used for these applications are galvanized skin passed steel to promote optimum corrosion resistance to the substrate the coat layers contains high durable polyester for top coat with special primers to comply with the severe environment conditions.

Kandil offers these products in a wide range of standard and non standard colors. The technical properties are summarized in the table below.

TECHNICAL PROPERTIES



Property	Brief description	Range	Range
Top coat (Dry thick.)	High durable Polyester top coat dry film	20 µm	Products are in compliance with EN 10169 EN 13523-1
Primer (Dry thick.)	Epoxy dry film under top/back coat	7 µm	
Back coat (Dry thick.)	Polyester back film	12 µm	
Coating Formability (T-bend test)	is determined by the minimum bending radius at which no cracks are visible on the coating	≤ 2T	ISO 1519 EN 13523-7
Impact resistance	the paint's resistance to cracking and/or peel-off after rapid deformation of the organic coated	15 Joule	ISO 6272 EN 13523-5
Pencil hardness	Is assessed by using a range of pencils special method. The value is given by the hardness of the last pencil that does not scratch the paint surface.	Min H	ASTM D3363 EN 13523-4 ISO 15184
Gloss	The specular reflection (gloss) of the coil coated surface is measured using a gloss meter and usually at an angle of 60	From 50 to 80	EN 13523-2
Corrosion resistance Salt spray test	Is evaluated by exposing a test specimen to a salt fog at 35°C for a given time. Evaluation criteria after the exposure time:	1000 hours with Z200	ISO 7253, ISO 4628-2 EN ISO 9227 EN 13523-8
Resistance to accelerated UV weathering (QUV- A)	UV weathering is evaluated by exposing an organic coated sample to accelerated weathering (UV, humidity and temperature) for 2,000 hours Evaluation is based on color change and gloss retention.	RUV3	ISO 4892-3 EN 13523-10 ASTM D4587 EN 10169-2

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"تطبق شروط الضمان وفق بنود العقد مع العميل"

STANDARD PRODUCTS

This product range combines all the requirements of the building sector in terms of aesthetic quality and properties such as flexibility, surface hardness, coating adhesion, corrosion and UV resistance etc.

The substrates used for these applications are galvanized skin passed steel to promote corrosion resistance to the substrate, the choice of the steel substrate grade, zinc weight and coat layers depend on the end use and the environment.

Kandil offers these products in a wide range of standard /non standard colors.

TECHNICAL PROPERTIES



Property	Brief description	Range	Range
Top coat (Dry thick.)	Polyester top coat dry film	20 µm	Products are in compliance with EN 10169 EN 13523-1
Primer (Dry thick.)	Epoxy dry film under top/back coat	5 µm	
Back coat (Dry thick.)	Polyester back film	10 µm	
Coating Formability (T-bend test)	is determined by the minimum bending radius at which no cracks are visible on the coating	≤ 3T	ISO 1519 EN 13523-7
Impact resistance	The paint's resistance to cracking and/or peel-off after rapid deformation of the organic coated	15 Joule	ISO 6272 EN 13523-5
Pencil hardness	Is assessed by using a range of pencils special method. The value is given by the hardness of the last pencil that does not scratch the paint surface.	Min H	ASTM D3363 EN 13523-4 ISO 15184
Gloss	The specular reflection (gloss) of the coil coated surface is measured using a gloss meter and usually at an angle of 60	From 50 to 80	EN 13523-2
Corrosion resistance Salt spray test	Is evaluated by exposing a test specimen to a salt fog at 35°C for a given time. Evaluation criteria after the exposure time:	500 hours with Z150	ISO 7253, ISO 4628-2 EN ISO 9227 EN 13523-8
Resistance to accelerated UV weathering (QUV- A)	UV weathering is evaluated by exposing an organic coated sample to accelerated weathering (UV, humidity and temperature) for 2,000 hours Evaluation is based on color change and gloss retention.	RUV2	ISO 4892-3 EN 13523-10 ASTM D4587 EN 10169-2

"Warranty conditions are applied due to client's contract terms"

"تطبيق شروط الضمان وفق بنود العقد مع العميل"

Kandil Thin Organic Coating



Products | KTOC

Kandil Thin Organic Coating

ORGAL
ORCOL

ORPAN
ORLEC



THE DIFFERENCE BETWEEN NORMAL GI PRODUCT AND KTOC PRODUCT:

NORMAL GI



Surface conversion: 0.10 μ

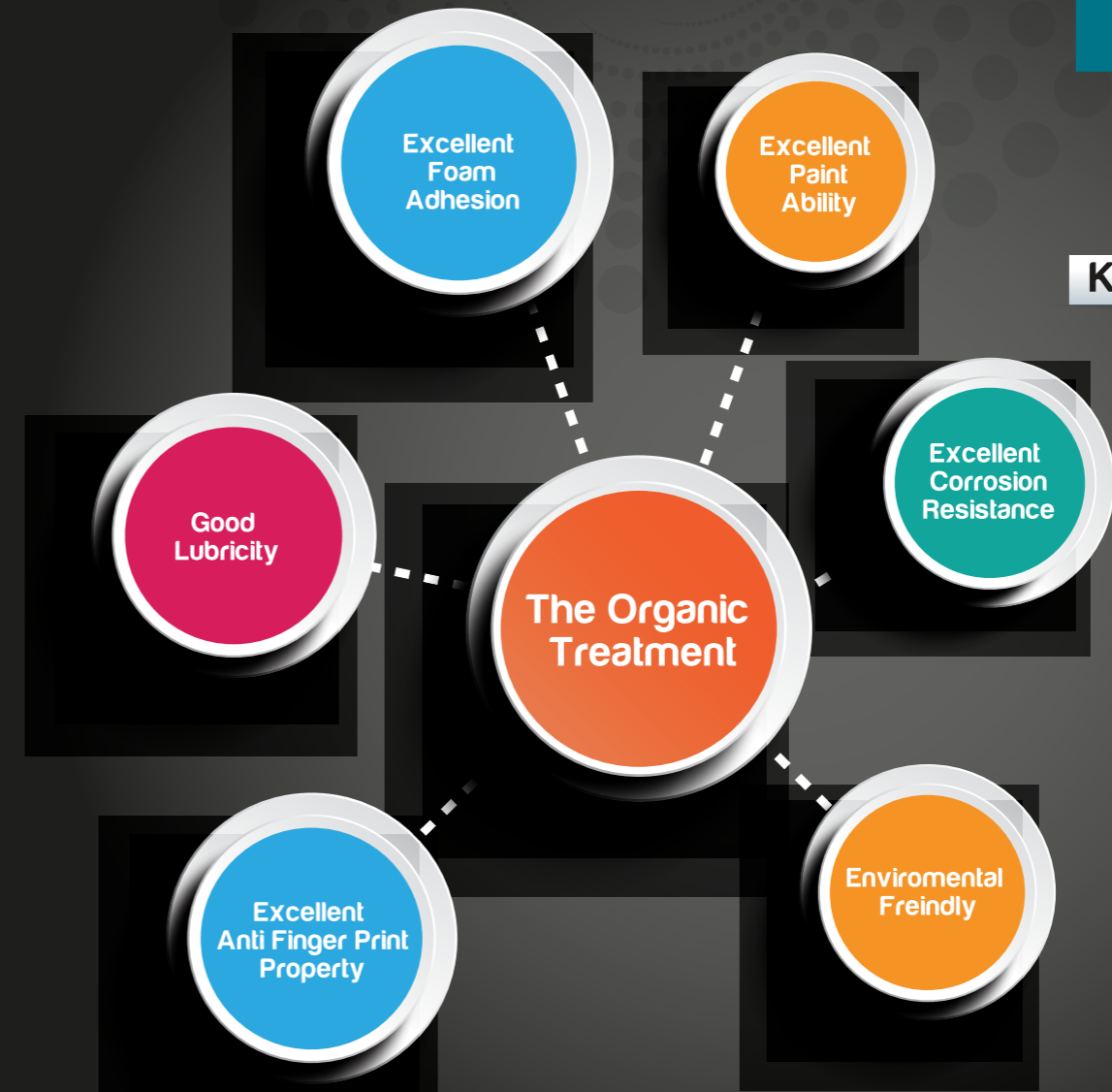
KTOC PRODUCT



Coating weight: 0.80 ~ 2.00 μ
Light Conversion

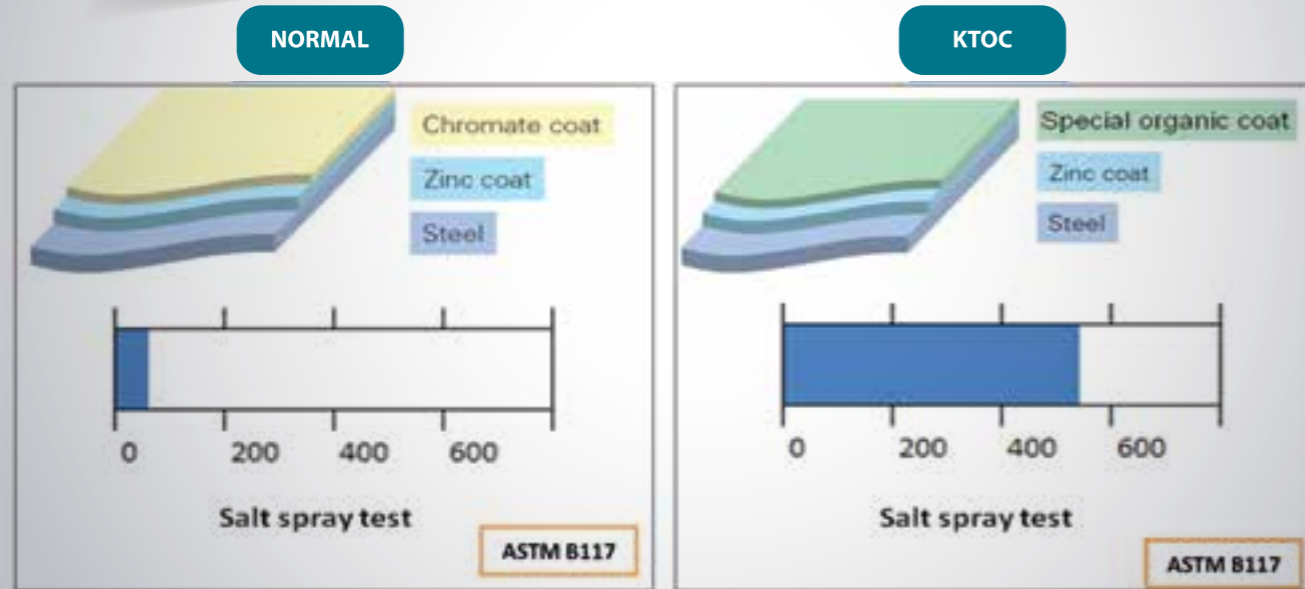
Double contribution to corrosion protection

KTOC Advantages

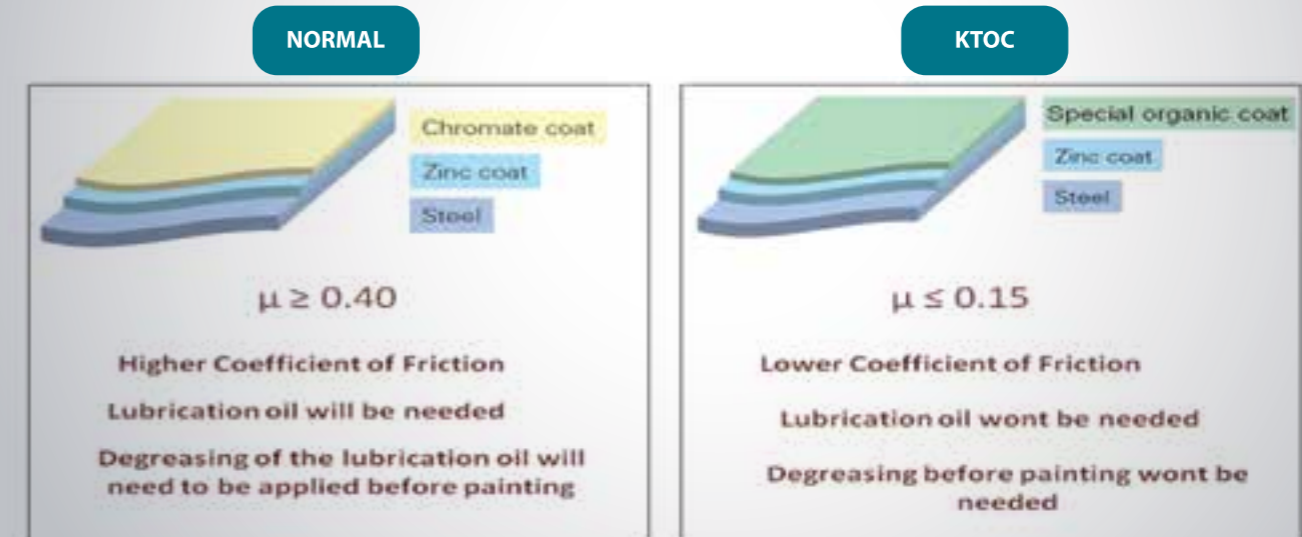


Performance Measures Of (KTOC) Vs Normal Treatments

1 CORROSION RESISTANCE



2 LUBRICITY



3 PAINTABILITY

NORMAL

Paint pre treatment is required for:

1. Improving point adhesion between base metal and coating
2. Slowing the corrosion rate when the paint film is broken

KTOC

Paint pre treatment is not required because:

1. The organic surface treatment is compatible with liquid and powder coatings.
2. The organic surface treatment is compatible with the metal substrate

4 ANTI FINGER PRINT PROPERTY

NORMAL

No anti finger print property

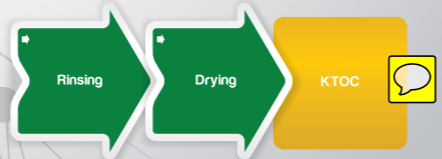
KTOC

Excellent anti finger print property

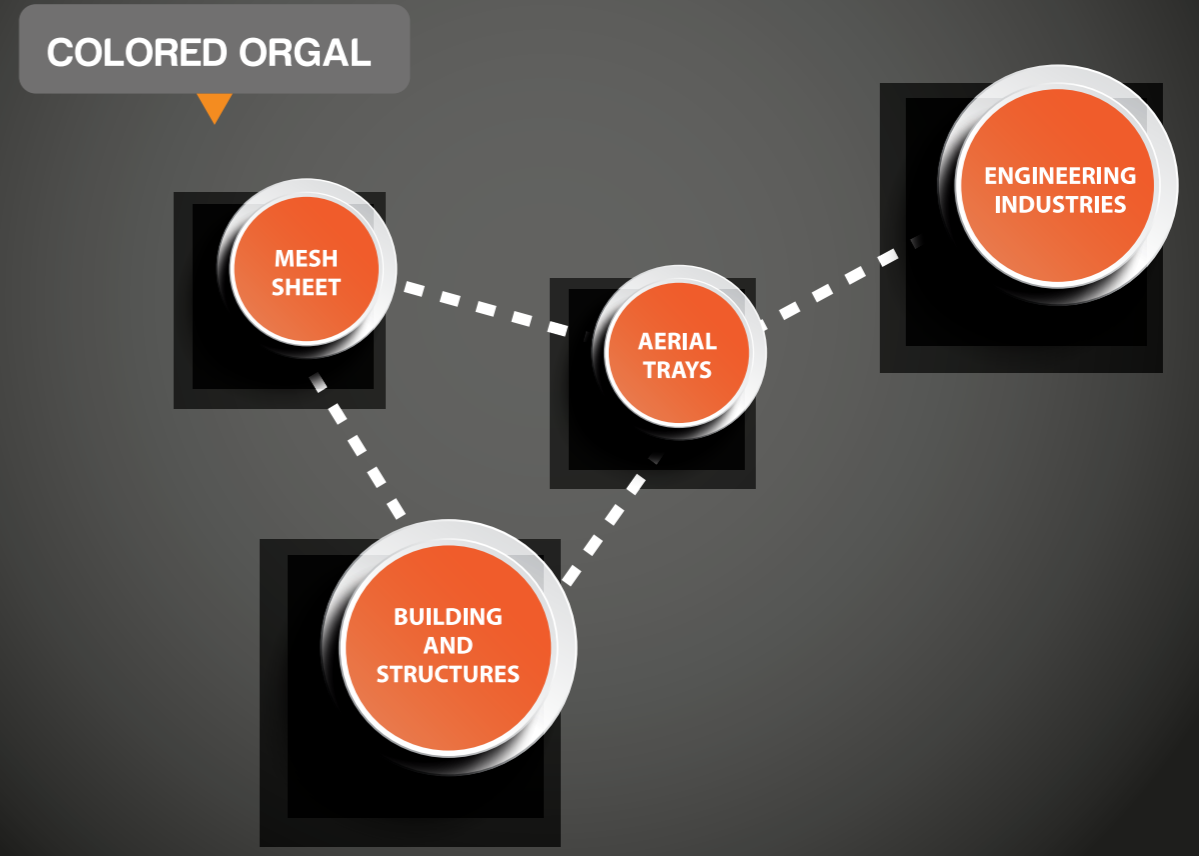
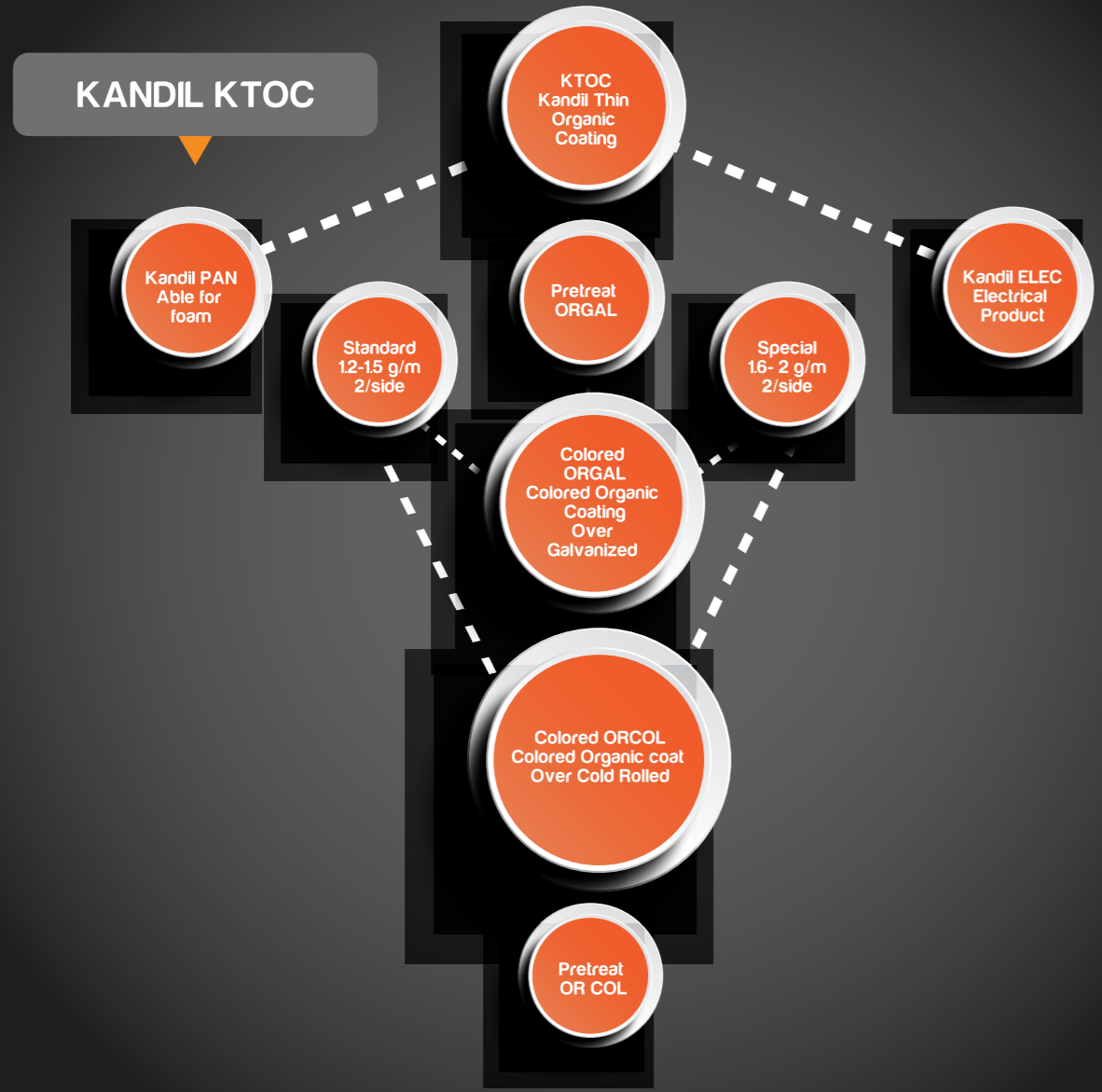
Galvanized



KTOC



5 5- EXCELLENT ADHESION TO PU (POLY URETHANE) FOAMS



COLORED ORPAN



KANDIL PAN product is prepainted product, its top side is normal PP (polyester or any paint type) and the back side is coated with organic coat excellent for foam adhesion according to standard tests.

KANDIL ORLEC



Steel Coated with high conductivity organic coat, used for electric devices such as Computer Cases, and DVD drives

Quality Certifications



ISO Certificates:

The purpose of this brochure is to give you all the information you need to take maximum advantage of everything organic coated steel has to offer.

But it is no more than a technical support tool and not intended as a substitute for direct contact with our technical and commercial teams. Please feel free to contact us for further details.



