



YIEH CORP.

Integrity · Profession · Efficiency

HOT-DIP COATED STEEL PRE-PAINTED STEEL

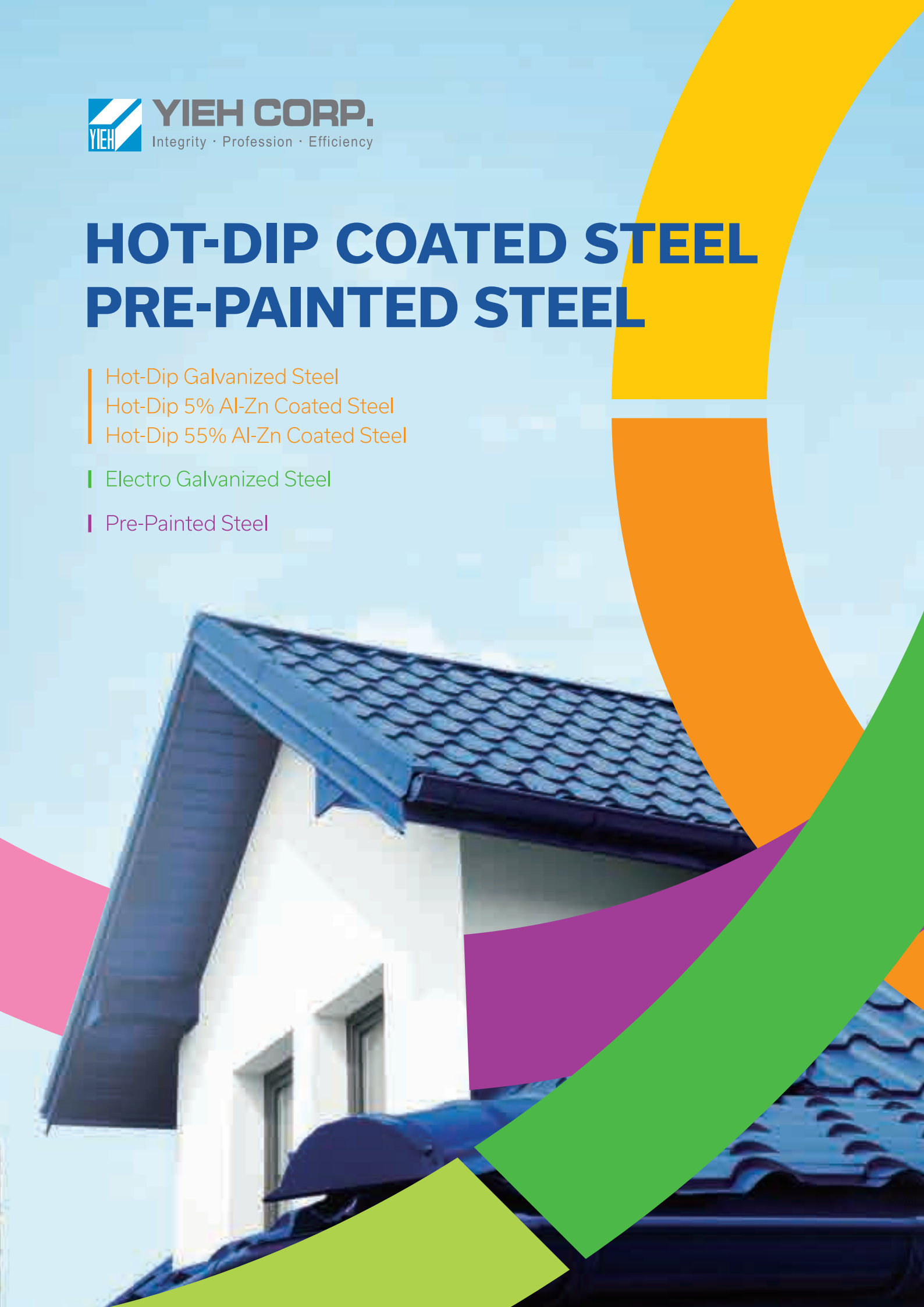
Hot-Dip Galvanized Steel

Hot-Dip 5% Al-Zn Coated Steel

Hot-Dip 55% Al-Zn Coated Steel

Electro Galvanized Steel

Pre-Painted Steel



CONTENTS

E UNITED GROUP

About

02

E United Group	02
About YIEH CORP.	03
Our Value	05

Manufacturing Process

07

Coating Lines Processes	07
Characteristic of Hot-Dip Galvanized Steel	07
Pre-Painted Coating Lines Process	09
Characteristic of Pre-Painted Coating Steel	09

Hot-Dip Galvanized Steel

11

Definition of Surface Finish and Coating Types	11
Product Specification of Hot-Dip Galvanized Steel	13
Product Specification of Hot-Dip 55%Al-Zn Coated Steel	15
Product Specification of Hot-Dip 5%Al-Zn Coated Steel	17

Electro Galvanized Steel

19

Product Specification of Electro Galvanized Steel	19
Characteristics of Electro-Galvanized Steel	20

Pre-Painted Steel

21

Color Steel	21
Product Specification of Continuous Color Coil Coating	23
Standard Color Chart	25

Application

27

Hot-Dip Galvanized Steel	27
Pre-Painted Steel	28

Packaging

29

Packaging and Labeling	29
Ordering Information	30

MANUFACTURING

YIEH CORP.

Yieh Phui Enterprise Co., Ltd.
Yieh Phui (China) Technomaterial Co., Ltd.
Yieh United Steel Corp.
Fujian Lian De Enterprise Co., Ltd.
Yieh Hsing Enterprise Co., Ltd.
Yieh Mau Corp.
Shin Yang Steel Co., Ltd.

EDUCATION

I-Shou University
I-Shou International School

MEDICAL SERVICES & HEALTH CARE

E-DA Hospital
E-DA Cancer Hospital
E-DA Dachang Hospital

ESTATE & ENTERTAINMENT BUSINESS

E-DA Royal Hotel
E-DA Skylark Hotel
E-DA Outlet Mall
E-DA Theme Park

ABOUT YIEH CORP.

Global Metal Professional Supplier

Yieh Corp., established in 1997, is the world's leading steel company specialized in supplying all kinds of steel metallic products. Yieh Corp. headquarter is situated in Kaohsiung, Taiwan and the branch companies are located in Shanghai, China and North America.

E United Group

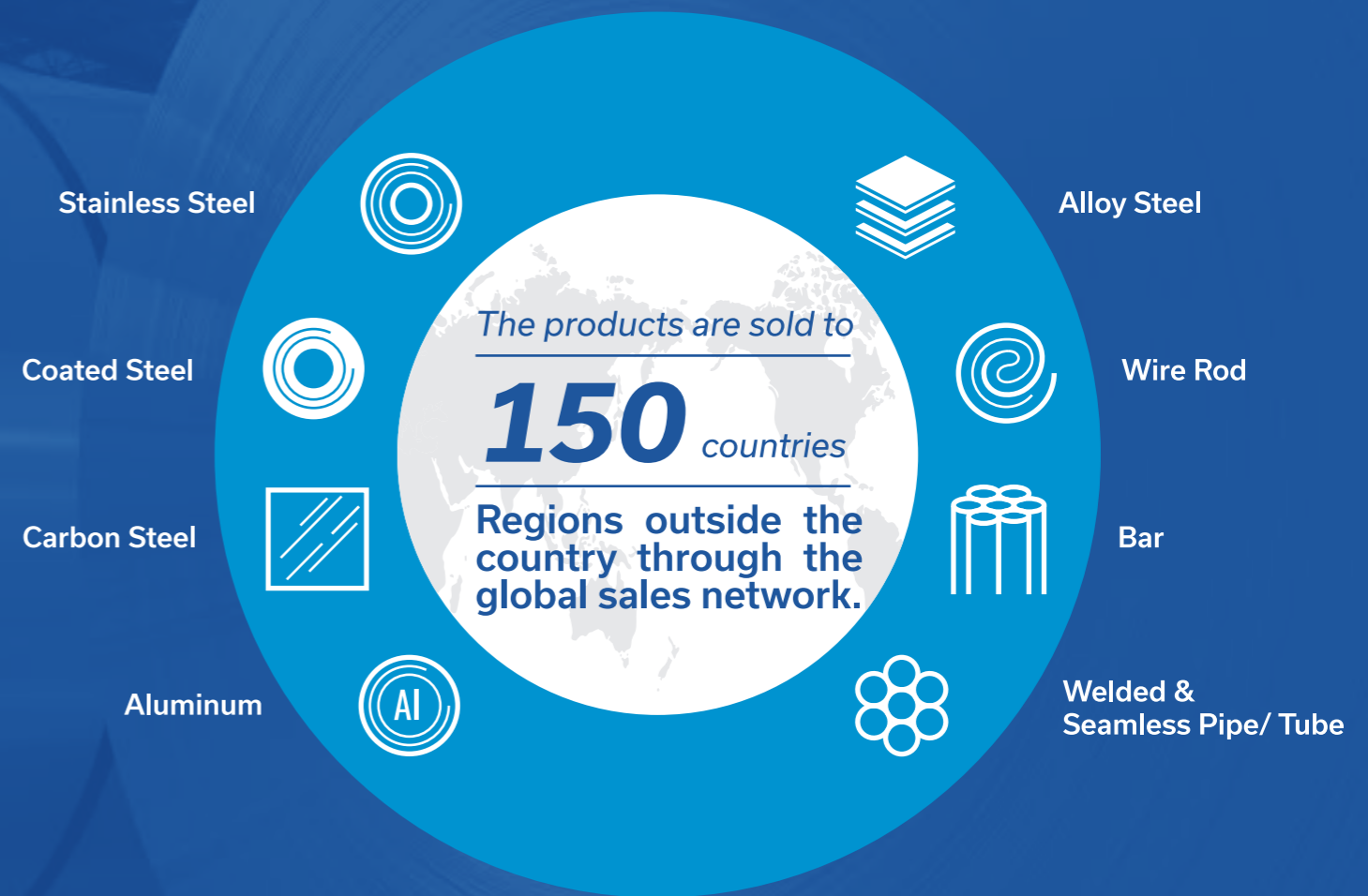
Yieh Corp. belongs to E United Group, which is the largest privately owned steel producer in Taiwan. Our group has four business units, including steel manufacturing industry, education, hospital and estates & entertainment business.

Best Steel Products & Service

Nowadays, Yieh Corp. plays an important role as a global steel marketing representative of the E United Group's steel manufacturing industry. We have successfully developed into a well-known international enterprise. We'll constantly improve our service and management in order to provide the best steel products and services as well as creating the most values for our present and future customers.

DIVERSE PRODUCTS

We are committed to providing global customers with complete solutions for diverse steel products.



TOP 3 ADVANTAGES OF SALES SERVICE

We will continue to create the best values for the clients with the specialized team, the most professional channel, information technology, management, and exceptional customer service.



Creating Diversified Products



Attracting Elite People



Maximizing Our Strength

OUR VALUE

Yieh Corp. strives to deliver unparalleled value and cutting-edge solutions to our clients.

We are guided and motivated by the following

3 CORE VALUES



We are reliable because we know the market, we are honest, truthful and we will meet our promise to our clients. Our clients' success becomes our success. We provide our clients with the best value products in an effort to grow their reputation within their industry.



We are committed to delivering a total solution of steel products, steel processing, logistics and technical services to fulfill our client's requirements in the most efficient and cost-effective manner.



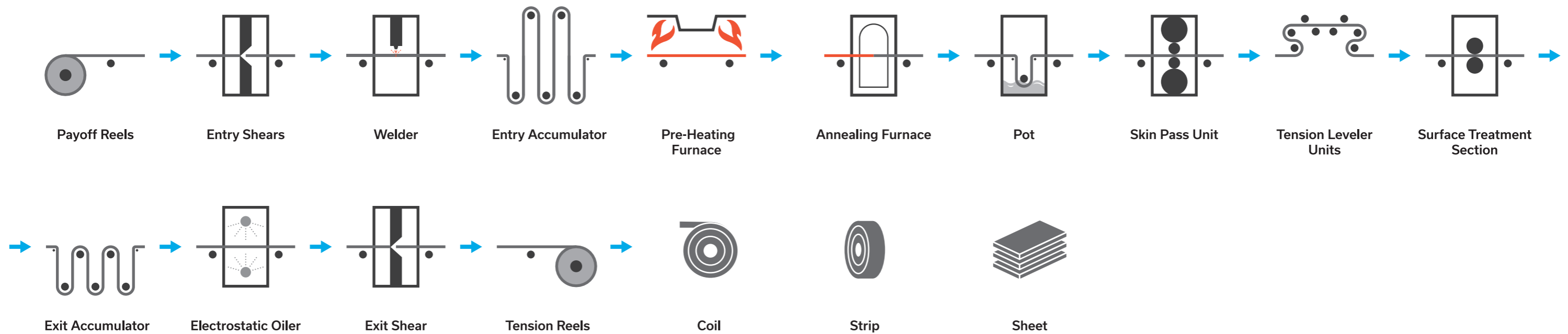
Our specialized team is dedicated to high quality of our services and excellence in our work. Yieh Corp. prides itself on the professional relationship we develop with all clients.

**Whenever you need us,
we'll be there.**

MANUFACTURING PROCESS

HOT-DIP GALVANIZED STEEL

Coating Lines Processes



Characteristic



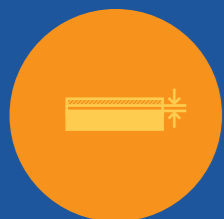
Excellent Weathering Resistance

The coated layer acts as a sacrificial anode, thus protecting the base steel from corrosion. The chromic acid or anti-fingerprint resin coated treatment adds additional protection to the strip against weathering.



Superb Paintability

The minimized spangle and skinpassed surface is smooth and homogeneous, providing superb paintability. The galvannealing process produces a spongy surface structure which is ideal for paint adhesion.



Good Adhesion

The thickness of the brittle zinc-iron alloy layer at the interface of the steel base metal and the zinc layer is minimized, thereby improving the adhesion of the zinc coating. The strip can be used for lock forming applications.



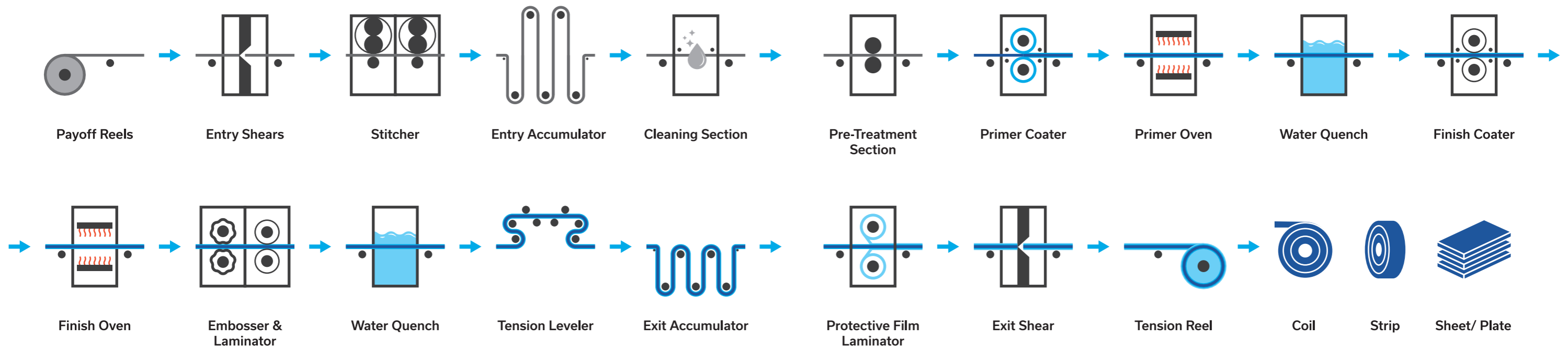
Availability

The line can produce coated steels with thicknesses ranging from 0.15 to 4.5mm and widths ranging from 450 to 1550mm. Available surface finishes include regular spangle and minimized (zero) spangle.

MANUFACTURING PROCESS

PRE-PAINTED STEEL

Pre-Painted Coating Lines Process



Characteristic



Broad Availability

Color steel sheets are available in a wide range of colors, sizes and mechanical characteristics. The broad selection of color, finish, texture, gloss, and hardness, expands the creativity of designers for building exteriors, interior decorations, household appliances, and so on. Color steel sheets can be film-embossed or metal-embossed, giving the finish a fine texture.



Excellent Cost Effectiveness

Color steel sheets are easy to use and have no need for post-painting, thus eliminating the need to invest in expensive labor, painting equipment, and pollution abatement costs. The extra durability of color steel sheets against corrosion and weathering imparts a lasting application life and noticeably reduces maintenance costs. In the long term, these features produce significant savings for end users.



Outstanding Formability

The substrate of color steel sheets, a hot-dip metallic coated cold-rolled steel sheet, is heat treated in a continuous annealing furnace. It is available in drawing, extra deep drawing, and lock forming grades. The tightly controlled hot-dip process minimizes the formation of the brittle zinc-iron alloy layer, thus ensuring a firmly adhering zinc layer which does not peel during forming. The color coatings are durable and flexible. Thus, they do not peel during forming.









Superb Durability

Color steel sheets use specially selected hot-dip metallic coated steel as a substrate. The metallic coating retards oxidation of the base steel metal. The paints utilized in color steel sheets are specially selected in accordance with the processing methods and the end use. The 2 coat 2 bake method of paint application provides color steel sheets with extra resistance against abrasion, impact, chemical corrosion, and weathering.

HOT-DIP GALVANIZED STEEL

Definition of Surface Finish and Coating Types

Texture	Product Characteristics	Production Method	Characteristics
	Regular Spangle	Spangle produced by crystallization solidification.	Good adhesion and weathering resistance.
	Minimized (Zero) Spangle	Control the composition of pot to achieve minimized spangle.	Uniform surface and attractive finish after painting.
	Extra Smooth Surface	Temper rolling produces an extra smooth surface.	Uniform surface and attractive finish after painting.
	Hot-Dip 5% Al-Zn Coated Steel	The coating alloy comprises about 5% aluminum, mischmetals and balanced Zn.	Good formability, excellent paintability and superior corrosion resistance.

Texture	Product Characteristics	Production Method	Characteristics
	Hot-Dip 55% Al-Zn Coated Steel	The coating alloy comprises about 55% Al, 1.5% Si and balanced Zn.	Uniform and pleasing appearance, and good adhesion.
	Electro Galvanized Steel	The process involves electroplating, running a current of electricity through a saline/zinc solution with a zinc anode and steel conductor.	<ul style="list-style-type: none"> • Uniform distribution of extremely thin zinc coating • Spangle free • Welds easily • Good paintability
	Galvannealed	The galvanized steel is heated to alloy the zinc-iron layer.	<ul style="list-style-type: none"> • No spangle and rough surface. • Good paintability and weldability.

PRODUCT SPECIFICATION

HOT-DIP GALVANIZED STEEL

Hot-Dip Galvanized Steel		CNS 1244 2013				JIS G 3302 2019			ASTM A653M 2017	AS1397 2011	EN 10346 2015
Specifications	Hot-Rolled Base :	Cold-Rolled Base:		Hot-Rolled Base:	Cold-Rolled Base:		DS	G1~G3	DX51-52-53D		
	SGHC	SGCC	SGHD	SGCD1~3	SGHC	SGCC	DDS	G250	S220GD		
	SGHD	SGCD1~3	SGH	SGH	SGCD1~3	CS TYPE A, B, C	300	300	(250		
	340	340	400	400	340	FS TYPE A, B	350	350	280		
	400	400	440	440	400	SS GRADE	400	400	320		
	440	440	490	490	440	33(230)	450	450	350		
	490	490	540	540	490	37(255)	550	550	550)		
	540	570			540	40(275)					
						50(340) CLASS 1~3					
						80(550) CLASS 1~3					
Base Steel Thickness (mm)		1.2~4.60	SGCD1~3: 0.27~2.0mm	1.2~4.60	SGCD1~3: 0.27~2.0mm	DS/DDS: 0.27~2.0mm	G1: 0.19~4.50mm	DX51D: 0.19~4.50mm			
			SGCC/SGC: 0.19~2.0mm		SGCC/SGC: 0.19~2.0mm	CS/FS: 0.19~4.50mm	G2&G3: 0.27~2.0mm	DX52~53D: 0.27~2.0mm			
						SS GRADE 33~80: 0.19~4.50mm	G250~550GD: 0.19~4.6mm	S220~550GD: 0.19~4.6mm			
Coating Mass	Regular Spangle (Note: thickness above 0.60mm)	Z08 Z18 Z30 Z55		Z08 Z20 Z37		Z90 Z350	Z100 Z600	Z100 Z350			
	Minimized Zero Spangle	Z09 Z20 Z35 Z60		Z10 Z22 Z45		Z120 Z450		Z140 Z450			
		Z10 Z22 Z37		Z12 Z25 Z60		Z180 Z500		Z200 Z600			
		Z12 Z25 Z45		Z14 Z27		Z275 Z550		Z225			
		Z14 Z27 Z50		Z18 Z35		Z305 Z600		Z275			
Surface Finish		Regular Spangle, Minimized (Zero) Spangle, Extra-Smooth									
Surface Treatment		Chromating, Oiled, Resin Coated (Anti-Fingerprint), or Green Treatment (Environmentally Friendly Anti-Fingerprint)									

Remarks

- 1 Tolerance for thickness, width, flatness and so on conforms to individual product specification.
- 2 All products with thickness 2.0mm and under can be skinpassed.
- 3 The specification for thicknesses under 1.6mm for hot-rolled base metal according to JIS G3302 will be the same as for thicknesses 1.6mm.
- 4 Please make inquires to our sales division for products with special specifications. Coating mass beyond the specifications above can be provided by YP upon mutual agreement between customers and us.
- 5 Coil inside diameters can be either 508mm or 610mm. Maximum coil outside diameter is 2000mm.
- 6 Coating mass Z08, Z09 and Z90 only apply for cold-rolled base metal.

PRODUCT SPECIFICATION

HOT-DIP GALVANIZED STEEL

Hot-Dip 55%Al-Zn Coated Steel		CNS 15237 2013			JIS G 3321 2017			ASTM A792M 2010			AS 1397 2011			EN10346 2015			
		SGLCD SGLCDD	SGLCC	SGLC340 SGLC400 SGLC440 SGLC490 SGLC540 SGLC570	SGLCD SGLCDD	SGLCC	SGLC400 SGLC440 SGLC570	CS Type A B C FS	DS	SS Grade 230 255 275 340 550	G3	G1 G2	G250 G300 G350 G450 G500 G550	DX51D	DX52D DX53D	S220GD S250GD S280GD S320GD S350GD	S550GD
Specifications																	
Base Steel Thickness (mm)		0.3 1.5	0.16 2.0	0.20 2.0	0.3 1.5	0.16 2.0	0.20 2.0	0.16 2.0	0.30 1.5	0.20 2.0	0.3 1.5	0.16 2.0	0.20 2.0	0.16 2.0	0.3 1.5	0.20 2.0	0.20 2.0
Coating Mass	Regular Spangle	AZ70 AZ90 AZ100 AZ120 AZ150 AZ170 AZ185			AZ70 AZ90 AZ120 AZ150 AZ170 AZ185			AZM100 AZM110 AZM120 AZM150 AZM165 AZM180			AZ150			AZ100 AZ150 AZ185			
Surface Finish		Regular Spangle															
Surface Treatment		Chromating, Oiled, Resin Coated (Anti-Fingerprint), or Green Treatment (Environmentally Friendly Anti-Fingerprint)															

Remarks

- 1 Tolerance for thickness, width, flatness and so on conforms to individual product specification.
- 2 All products with thickness 2.0mm and under can be skinpassed.
- 3 Coil inside diameters can be either 508mm or 610mm. Maximum coil outside diameter is 2000mm.

- 4 Please make inquires to our sales division for products with special specifications. Coating mass beyond the specifications above can be provided by YIEH upon mutual agreement between customers and us.

PRODUCT SPECIFICATION

HOT-DIP GALVANIZED STEEL

Hot-Dip 5%Al-Zn Coated Steel		CNS 15236 2013			JIS G 3317 2017			ASTM A875M 2013				AS 1397 2011			EN10346 2015				
		SZACD1	SZACC	SZAC340 SZAC400 SZAC440 SZAC490 SZAC540 SZAC570	SZAHC SZAHA 340 400 440 490	SZACC SZAC 340 400 440 570	SZACD1	Commercial Steel Type A B C	Forming Steel Type A B	DDS	Structural Steel Grade 230 255 275 340	Structural Steel Grade 550	G3	G1 G2	G250 G300 G350 G450 G500 G550	DX51D	DX52D DX53D	S220GD S250GD S280GD S320GD S350GD	S550GD
Specifications																			
Base Steel Thickness (mm)		0.27 1.10	0.2 1.8	0.2 1.75	1.30 4.50	0.2 1.80	0.27 1.10	0.20 4.50	0.20 4.50	0.27 1.10	0.20 4.50	0.20 2.00	0.27 1.10	0.2 1.8	0.2 4.50	0.20 4.50	0.27 1.10	0.20 4.50	0.20 1.80
Coating Mass	Regular Spangle	Y08 Y10 Y12 Y14 Y18 Y20	Y22 Y25 Y27 Y30 Y35		Y08 Y10 Y12 Y14 Y18 Y20	Y22 Y25 Y27 Y35				ZGF90 ZGF135 ZGF180 ZGF225 ZGF275 ZGF350			ZA90 ZA135 ZA180 ZA225 ZA275 ZA350			ZA095 ZA130 ZA185 ZA200 ZA255 ZA300			
	Minimized Spangle Zero																		
Surface Finish		Regular Spangle, Minimized Spangle																	
Surface Treatment		Chromating, Oiled, Resin Coated (Anti-Fingerprint), or Green Treatment (Environmentally Friendly Anti-Fingerprint)																	

Remarks

- 1 Tolerance for thickness, width, flatness and so on conforms to individual product specification.
- 2 All products with thickness 2.0mm and under can be skinpassed.
- 3 Coil inside diameters can be either 508mm or 610mm. Maximum coil outside diameter is 2000mm.

- 4 Please make inquires to our sales division for products with special specifications. Coating mass beyond the specifications above can be provided by YP upon mutual agreement between customers and us.

ELECTRO GALVANIZED STEEL

SPECIFICATIONS	JIS G3313 SECC	JIS G3313 SECD	JIS G3313 SECE
Quality	Commercial Quality	Drawing Quality	Deep Drawing Quality
Usage	<ul style="list-style-type: none"> Furniture Computer Case Electronic Parts Electrical Equipment 	Automobile	Automobile
Type of Surface Treatment	<ul style="list-style-type: none"> Chromate Treatment Phosphate Treatment Oiling 		
Available Size	Thickness: 0.3~1.6mm Width: 850~1580mm Coating Weight: 10-30g/m (single side) Max. Coil Weight: ≤ 20 MT		
Remarks	The table above shows the widest range of product dimensions. For a detailed acceptable order range, please contact Sales & Marketing Division.		

Characteristics of Electro-Galvanized Steel



Corrosion Resistance

Electro-galvanized steel has good corrosion resistance, especially as the surface of the coating is evenly bonded, corrosive gases or liquids are not easy to permeate the interior. The zinc is solidified to produce the outer layer of the pure zinc coating, a thin film is formed on the surface to prevent it from being corroded during exposure to acid and alkaline environments, which protected the steel body for a long time.



Paintability

Electro-galvanized steel has various colors be coated after the chemical process, which can be customized to customer requirements. Electro-galvanized steel is beautiful and decorative. Its flat and uniform surface provides good conditions for painting and improves its paint adhesion and anticorrosion properties after painting.



Weldability

Electro-galvanized steel has good ductility and will the surface not fall easily during various processing, bending and handling.

PRE-PAINTED STEEL

STRUCTURE

Color steel sheets is made up of



Each layer plays an important role in producing the excellent quality of color steel sheets.

BASE METAL



COATING FILM

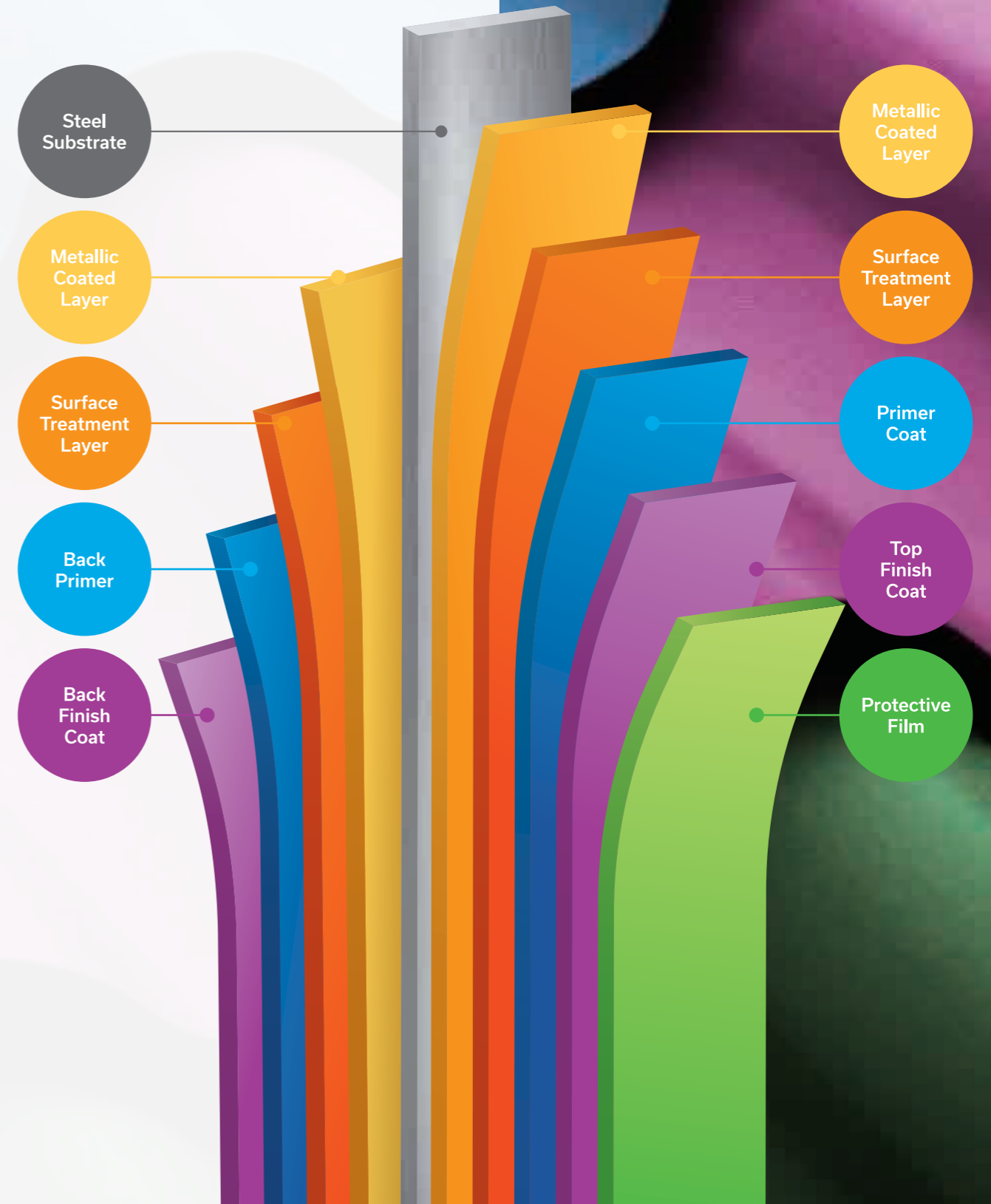


It can be embossed to versatile texture

In addition, **A High-Built Paint Film** **Special Function Coating**

e.g. white board/ green board color sheet, Rough Matt/ Neo Matt polyester color sheet, anti-electrostatic color sheet, high performance clean color sheet and anti-microbial color sheet, can also be produced.

2 COAT 2 BAKE SYSTEM



HOT-DIP GALVANIZED STEEL

ELECTRO GALVANIZED STEEL

PRE-PAINTED STEEL

PRODUCT SPECIFICATION

PRE-PAINTED STEEL

SPECIFICATIONS	Pre-Painted Hot-Dip Galvanized Steel		Pre-Painted 5% Al-Zn Coated Steel		Pre-Painted 55% Al-Zn Coated Steel	Pre-Painted Embossed Steel
	Coating Type	PE, SMP, Acrylic, PVDF				
Product Spec.	CNS 10804 (2013) CNS 15298 (2013) CNS 15299 (2013)	JIS G3312 (2013) CGCC CGCD1~3 CGC340 CGC400 CGC440 CGC490 CGC570	JIS G3318 (2013) CZACC CZACH CZACD1 CZAC340 CZAC400 CZAC440 CZAC490 CZAC570	JIS G3322 (2013) CGLCC CGLCD CGLC400 CGLC440 CGLC490 CGLC570	ASTM A755M (2016) AS 2728 (2013) EN 10169+A1 (2010)	JIS K6744 (2007) SG SA ASTM A755M (2016) EN 10169+A1 (2010)
Coating Thickness	Primer: PU or Epoxy 5µm Topcoat: 15~20µm Back Primer: PU or Epoxy 2µm Back Coat: PE or Epoxy 5~12µm					Primer: Epoxy Topcoat: PVC, PLASTISOL 150~250µm Back Primer: PU or Epoxy 2µm Back Coat: PVC, PLASTISOL 100~250µm or Epoxy 7µm
Surface Treatment	<ul style="list-style-type: none"> • Protective film can be applied • Metal Embossed • Cedar Wood • Stucco • Leather 					<ul style="list-style-type: none"> • PVC Embossed • Leather • Lichee

Remarks

¹ The ASTM standards presented here adopt the equivalent metric system. (The imperial system deletes the "M" after their specification number, such as A755 and A792.)

² Coating thickness is for reference only.

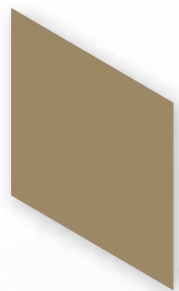
STANDARD COLOR CHART

PRE-PAINTED STEEL

Standard Color Coating



RAL 1015
Light Ivory



RAL 1019
Grey Beige



RAL 3009
Oxide Red



RAL 5008
Grey Blue



RAL 6005
Moss Green



RAL 6011
Reseda Green



RAL 6020
Chrome Green



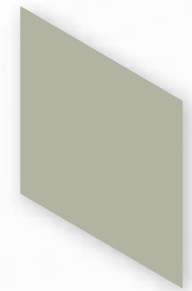
RAL 7006
Beige Grey



RAL 7016
Anthracite Grey



RAL 7022
Umbra Grey



RAL 7032
Pebble Grey



RAL 7037
Dusty Grey



RAL 8004
Copper Brown



RAL 8012
Red Brown



RAL 8017
Chocolate Brown



RAL 9002
Grey White



RAL 9006
White Aluminum



RAL 9005
Jet Black

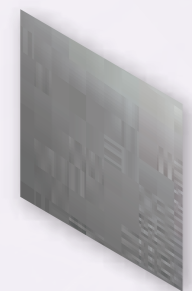


RAL 9007
Grey Aluminum

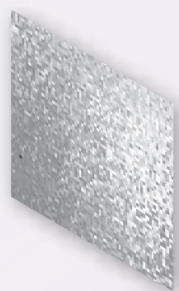


RAL 9022
Pearl Light Grey

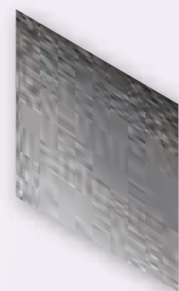
Customized Coating Pattern



Leather
Grain



Fir
Grain



Cement
Wall Grain



Pine
Grain



Cypress
Grain



Yew
Grain



Marble
Grain



Grey Stone
Brick Grain



Ottory Stone
Brick Grain



HL

1 The color presented here differs slightly from the actual color due to print limitations.
Remark: Please refer to our sample panels for a more precise representation of the colors.

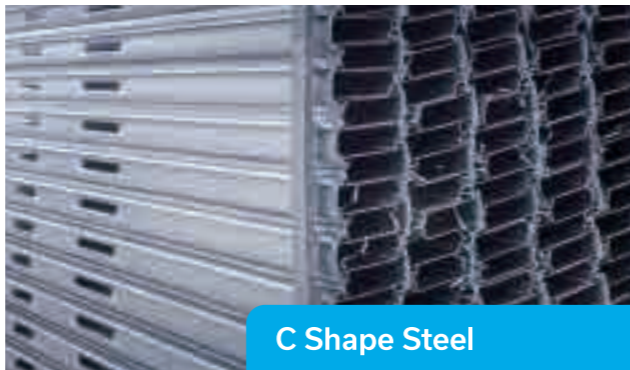
2 Other colors are available subject to inquiry.

APPLICATION

Hot-Dip Galvanized Steel



Steel Beam



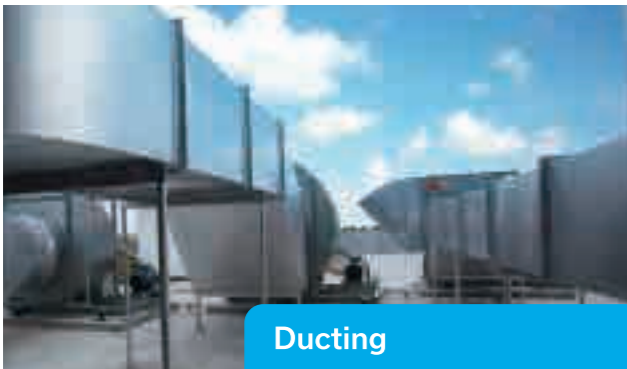
C Shape Steel



Grain Bin



Guardrail



Ducting



Solar Panel Bracket

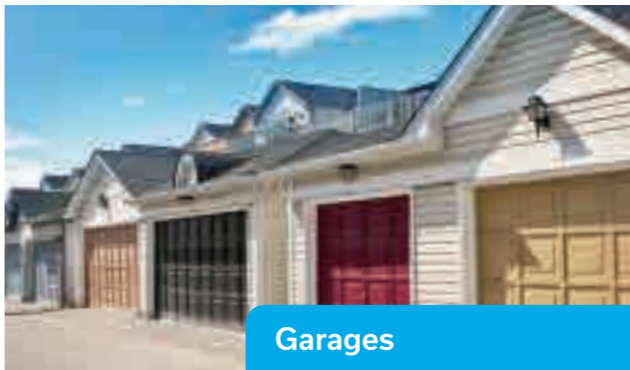


Flooring Decking Sheet



Corrugated Metal Fence Partition

Pre-Painted Steel



Garages



Roofing



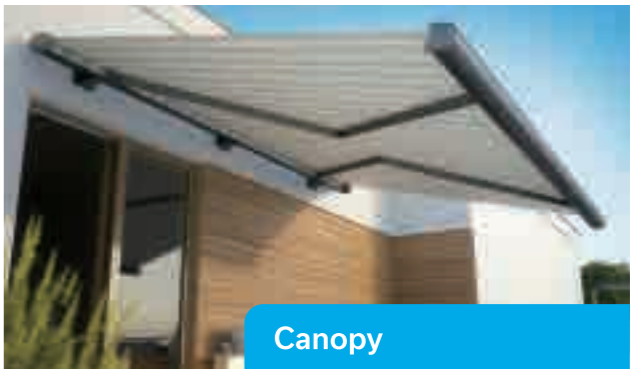
Iron Rolling Door



Building



Fence



Canopy



Home Appliances



Cabinet

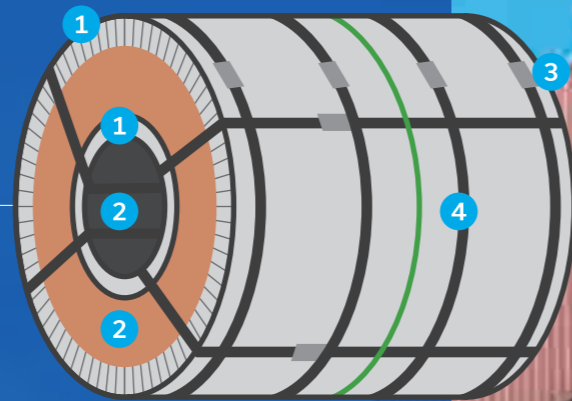
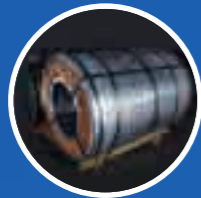
PACKAGING & LABELING

Yieh Corp. values details of packaging with mill's standard or customer's request to avoid unexpected damage during delivery. Similarly, each product has its shipping mark on external packing for identification and inspection more conveniently.

PACKAGING

Coil

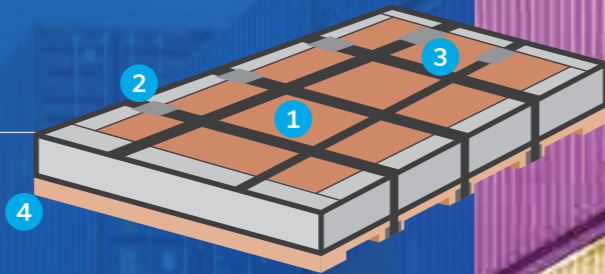
Strip



- 1 Metal protective ring
- 2 Waterproof wrapping paper
- 3 Buckle
- 4 Metal band

Sheet

Plate



- 1 Waterproof wrapping paper
- 2 Buckle
- 3 Metal band
- 4 Wooden pallet

LABELING OF COATED STEEL COILS/ SHEET

YIEH.COM

Product: Hot-Dip Galvanized Steel Coil
 Size (TCT): 1.0mm x 1219mm x Coil
 N.W.: 4900 KGS G.W.: 4940 KGS
 Pcs: 1
 Steel Grade: EN 10346 DX51D
 Coil No.: 1234567890A
 Invoice No. YC2021123456789
 Made in Taiwan

YIEH CORP. YIEH CORPORATION LIMITED

YIEH CORP.
 Long Beach U.S.
 Made in Taiwan

YIEH CORP. YIEH CORPORATION LIMITED



ORDERING INFORMATION

REQUIRED INFORMATION IN FIRM ENQUIRY

INFORMATION	Example Hot-Dip Galvanized	Example Pre-Painted Steel
COMMODITY	Hot-Dip Galvanized Steel	Pre-Painted 5% Al-Zn Coated Steel Coil
SPECIFICATION DESIGNATION (JIS, ASTM, EN or others)	JIS G3302-2012 SGCC	ASTM A755M
DIMENSIONS (Thickness × Width mm)	2.0 mm × 1219 mm × 2438 mm	1.0 mm × 1219 mm × 2438 mm
COATING MASS DESIGNATION	Z275	Z275
SURFACE FINISH (Regular spangle or Min. spangle)	Regular Spangle	PVC, Metal Embossed, Cedar Wood, Stucco, Leather
SURFACE TREATMENT (Chromating treatment, Uncoiled, Anti-finger print)	Chromating Treatment	N/A
COATING TYPE	N/A	PVDF
COATING THICKNESS	N/A	25 um (TOP) / 5~7 um (BACK)
EQUIVALENT OR DIFFERENTIAL COATING	Equivalent Coating	Equivalent Coating
FINAL USAGE	Duct	Roofing
PACKING	Iron Sleeve	Eye to sky with wooden pallet
ORDER VOLUME (Metric ton)	150 MT	150 MT
DELIVERY DATE	2022.01.01	2022.01.01



YIEH CORP.

Integrity · Profession · Efficiency

The world's leading steel company specialized
in supplying all kinds of steel metallic products.

