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公司品質政策： 確實掌握顧客的期望

資 本 額：新台幣32.118億元

年營業額：新台幣約200億元

員工人數：約570人

子 公 司：淀鋼國際股份有限公司（1997年成立，生產各式建材）

Capital : NT\$3.2118 billion

Sales Revenue : ≐ NT\$20 billion per annum

Employee No. : About 570

Subsidiaries : Yodogawa International Limited, founded in 1997, producing various construction materials.



盛餘簡介

SYSCO INTRODUCTION

■公司重要沿革

- 1973年 公司登記成立，生產鋼管為主。
- 1986年 澳洲CRA集團投資本公司，開始生產冷軋鋼捲。
- 1987年 日本淀川製鋼所及東棉商社聯袂投資，盛餘成為台灣第一家鍍製鋼鐵廠，專業生產冷軋、鍍55%鋅、鍍鋅、鍍55%鋅鋅烤漆及鍍鋅烤漆鋼捲。
- 1991年 }
● 1993年 冷軋、鍍鋅及鍍鋅烤漆產品先後獲得日本工業標準(JIS)及中國國家標準規格(CNS)正字標誌，為全台灣第一家。
品質臻於國際標準：品質重大里程碑。
- 1994年 澳洲CRA撤資，日本淀川取得大部份股權，公司英文名字由 An Mau Steel Co., Ltd. 更改為 Sheng Yu Steel Co., Ltd. (簡稱SYSCO)
- 1995年 通過ISO-9002品質認證。
- 1997年 公司股票在台灣證券交易所正式掛牌上市。
通過ISO-14001環境管理認證。
- 2000年 第二條鍍鋅線開始量產。
榮獲首屆經濟部「工業精銳獎」。
- 2001年 第二條烤漆線開始量產。
日本豐田通商株式會社取代東棉投資盛餘。
- 2002年 通過ISO-9001品質認證。
- 2003年 新的連續式酸洗線開始量產。
- 2005年 通過OHSAS-18001職業安全衛生管理系統認證。
鍍55%鋅及鍍55%鋅鋅烤漆鋼板獲得日本工業標準規格JIS 標誌，於此，全部產品皆獲JIS認證。
- 2006年 通過日本設備維護協會(JIPM)TPM優秀賞第1類審查。
- 2007年 榮獲行政院勞委會勞動條件處第一屆「友善職場優良事業單位」評選認證。
- 2008年 榮獲台灣訓練品質系統(TTQS)之白金牌等級。
- 2009年 冷軋廠軋延一線設備改造，運轉速度從原本之900mpm提昇到1700mpm。
- 2010年 榮獲高雄市工業會「九十九年績優會獎」。
榮獲選為 2010 TTQS訓練品質評核系統標準單位。
- 2011年 與母公司共同合資成立中國大陸新設公司。
榮獲行政院勞委會「第19屆勞工安全衛生群組合作組織」績優單位。 獲選高雄市優良日商企業。
- 2012年 經行政院衛生署國民健康局評定符合「健康職場自主認證—健康促進標準」
榮獲選為「2012 TTQS訓練品質評核系統企業機構版 金牌單位」。
- 2013年 公司全系列產品取得經濟部標檢局授權「台灣製產品 MIT微笑標章」，為業界同型產品首家取得授權廠商。
- 2014年 榮獲第11屆傑出企業類國家品牌玉山獎及全國首獎。
榮獲台灣鋼鐵工業同業公會「102年度安全衛生進步獎」。
榮獲選為「2014 TTQS訓練品質評核系統企業機構版 金牌單位」。
- 2015年 榮獲金商獎「中華民國優良商人」獎。
榮獲「全國團結圈至善組競賽銅塔獎」。
- 2016年 榮獲高雄市工業會「2016年 績優會員獎」。

■ Key Events

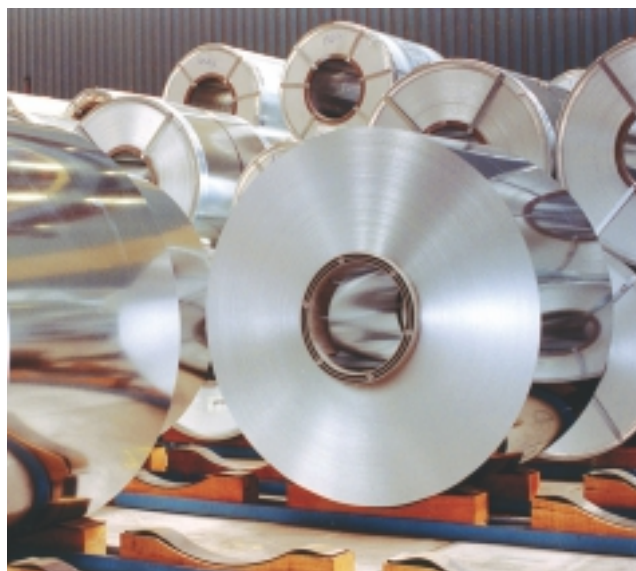
- 1973 Company founded, mainly a steel pipe producer.
- 1986 CRA Group of Australia invested in the Company, starting cold rolled steel coils production.
- 1987 Yodogawa Steel Works and TOMEN Corporation of Japan jointly joined the Company. The Company became Taiwan's first coated steel producer, specializing in Cold Rolled (CR), Galvanized (GI), 55% Al-Zn Alloy-coated (GL), Prepainted Galvanized (PPGI) and Prepainted 55% Al-Zn Alloy-coated (PPGL) Steel in Coils.
- 1991 }
● 1993 Products of CR, GI and PPGI certified respectively by Japanese Industry Standard (JIS) and Taiwan's Chinese National Standard (CNS), Taiwan's first qualifier.
Quality met the international standard : a milestone of quality.
- 1994 CRA transferred all shares to Yodogawa.
Company's English name changed from An Mau Steel Co., Ltd. to Sheng Yu Steel Co., Ltd. (SYSCO in brief).
Accredited ISO-9002 Quality System.
- 1995 Accredited ISO-9002 Quality System.
- 1997 Public listing in Taiwan Stock Exchange.
Accredited ISO-14001 Environment Management System.
- 2000 Commercial run of No. 2 CGL.
Awarded "Industrial Excellence" by Ministry of Economic Affairs.
- 2001 Commercial run of No. 2 CCL.
Toyota Tsusho replaced TOMEN to invest in SYSCO.
- 2002 Accredited ISO-9001 Quality System.
- 2003 Commercial run of Continuous Pickling Line.
- 2005 Accredited OHSAS-18001 (Occupational Health and Safety Assessment Series).
Certified by Japanese Industry Standard (JIS) on GL (55% Al-Zn Alloy Coated Steel Coils).and PPGI (Prepainted 55% Al-Zn Alloy Coated Steel Coils).Eventually,all SYSCO's products have been accredited by JIS.
- 2006 Certified by Japan Institute of Plant Maintenance (JIPM) on "TPM Excellent Award" of 1st Category.
- 2007 Accredited "Excellent Company in Friendly Workplace" by Dept. of Labor Standards, Council of Labor Affairs, Executive Yuan.
Sheng Yu Steel Awarded Platinum Prize of TTQS.
- 2008 Major Revamping Done on #1 CRM. The speed is lifted from 900 mpm to 1,700 mpm.
- 2010 Awarded "Excellent Company" by Kaohsiung Industrial Association.
Sheng Yu Steel Selected Taiwan's 2010 "TTQS" Star Corporation.
- 2011 Invested with parent company to establish a new company in mainland China.
Awarded by the Council of Labor Affairs as an excellent business entity in "Labor Safety/Hygiene Cross-enterprises Group Cooperation Organization, 19th Term".
Sheng Yu Steel Selected Excellent Japanese Enterprise in Kaohsiung.
- 2012 Accredited by the Bureau of Health Promotion, Department of Health, qualifying to the standards of "Self-certification of Healthy Workplace---Health Promotion Badge".
Sheng Yu Steel Wins "Gold Medal Unit, 2012 TTQS (Taiwan TrainQuali System)".
- 2013 Obtained MOEA's Certification of "Taiwan-made Product MIT Smile Logo" for All Products. Sheng Yu Steel becomes the first company for having been certified on such products in the steel industry.
- 2014 Awarded the 11th "National Brand YuShan Award -- Excellent Enterprise" and National First Prize.
Awarded the "Occupational Safety and Health Improvement Award of Year 2013" by Taiwan Steel & Iron Industries Association.
Sheng Yu Steel awarded Golden Prize of 2014 TTQS.
- 2015 Sheng Yu Steel awarded the "Oscar Golden Business Awards".
- 2016 Awarded Third Prize in National QCC Competition.
Awarded "Excellent Company" by Kaohsiung Chamber of Industry.

主要產品

MAIN PRODUCTS

■ 鍍鋅產品 GALVANIZED PRODUCTS

- 鍍55%鋁鋅鋼捲(GL)
55% Al-Zn ALLOY- COATED STEEL COILS
- 鍍鋅鋼捲(GI)
GALVANIZED STEEL COILS



■ 烤漆產品 PREPAINTED PRODUCTS

- 鍍55%鋁鋅烤漆鋼捲(COLORSTRONG)
PREPAINTED 55% Al-Zn ALLOY-COATED STEEL COILS
- 鍍鋅烤漆鋼捲(COLORZINC)
PREPAINTED GALVANIZED STEEL COILS

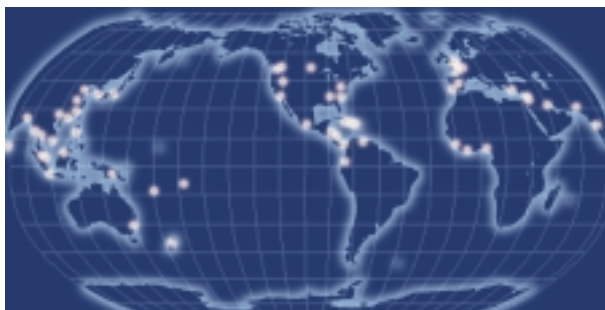


盛餘彩色鍍鋁鋅合金鋼捲

可拉壯
COLORSTRONG®

盛餘彩色鍍鋅鋼捲

可拉新
COLORZINC®



製造流程

MANUFACTURING FLOW CHART

製造流程示意圖



熱軋 (HR)



酸洗線 (CPL)

酸洗鋼捲
P&O



軋延線 (Mill)

冷軋鋼捲
FH

產線別 LINE	生產厚度 (Thickness:mm)	生產寬度 (Width:mm)	年產能 (MT/Y)	設備製造廠商 SUPPLIER
C P L	1.00~3.50	600~1320	900,000	J S P
NO.1 Mill	0.13~2.50	600~1310	440,000	IHI
NO.2 Mill	0.15~1.60	600~1310	270,000	KAWASAKI
NO.1 CGL	0.17~1.20	600~1310	200,000	HITACHI
NO.2 CGL	0.20~2.50	600~1310	250,000	NIPPON STEEL
NO.1 CCL	0.17~1.20	630~1310	100,000	CHUGAIRO
NO.2 CCL	0.17~1.20	600~1310	100,000	CHUGAIRO

註：上表為設備生產尺寸規範，若欲訂購請洽營業部。

Note : The above table shows the product specification and production capacities of SYSCO's facilities.

Please contact Marketing Division to best arrange your orders.



鍍鋅線 (CGL)

鍍**55%**鋁鋅/鍍鋅鋼捲
GL/GI



烤漆線 (CCL)

鍍**55%**鋁鋅/
鍍鋅烤漆鋼捲
PPGL/PPGI





55% Al-Zn ALLOY- COATED / GALVANIZED STEEL COILS

鍍55%鋁鋅鋼捲 / 鍍鋅鋼捲

■ 鍍55%鋁鋅鋼捲

「鍍55%鋁鋅鋼捲」之鋁鋅合金結構是由55%鋁、43.4 % 鋅與1.6%矽在600°C高溫下固化而組成，其整個結構由鋁－鐵－矽－鋅，形成緻密的四元結晶體，此結晶體在鋼板上形成一層屏障，因而有效的防止腐蝕因子穿透。

■ 鍍鋅鋼捲

鍍鋅鋼捲因表面被覆鋅層阻隔大氣的侵蝕，以防止底材繼續腐蝕，及確保底材的使用壽命。

鍍鋅鋼捲還具有經濟性與多樣性，可符合不同環境，不同用途之要求，提供高附加價值之產品組合，無論在精密儀器、資訊、電器、建築、烤漆等領域都已普遍採用鍍鋅鋼捲。

■ 55% Al-Zn ALLOY- COATED STEEL COILS

The aluminum-zinc alloy for 55% Al-Zn alloy-coated steel coils consists of 55% aluminum, 43.4% zinc and 1.6% silicon, solidified at 600°C high temperature. The whole structure is a quaternary Al-Fe-Si-Zn compound which becomes a protection layer on the steel sheet to prevent penetration of corrosive factors effectively.

■ GALVANIZED STEEL COILS

The zinc layer on the surface of the galvanized steel sheet isolates the steel sheet from atmosphere to prevent further corrosion of the base sheet and ensures a long service life of the base sheet, due to the excellent corrosion resistance of the galvanized steel sheets.

Besides, our galvanized steel sheets are economic and functionally diverse, meeting the requirements of different environments and applications and provide high added value for various combination of products. Now, the galvanized steel sheets are in common use in many fields such as precision instruments, computers, electronic appliances, architectures, color coating, etc..

特性

CHARACTERISTICS

■耐腐蝕性

「鍍55%鋁鋅鋼捲」的耐腐蝕性來自鋁的障礙層保護功能，和鋅的犧牲性保護功能。當鋅在切邊、刮痕及鍍層擦傷部份作犧牲保護時，鋁便形成不能溶解的氧化物層，發揮屏障保護功能。

鍍鋁鋅合金鋼捲已在各種不同的大氣環境中，進行了20多年的室外曝露試驗，證實鍍55%鋁鋅鋼板的切邊保護功能，比鍍鋅鋼板及鍍5%鋁鋅鋼板為佳。



鍍鋅鋼板
Galvanized
steel sheet

鍍4%鋁鋅鋼板
4% Al-Zn alloy-
coated steel sheet

鍍7%鋁鋅鋼板
7% Al-Zn alloy-
coated steel sheet

鍍55%鋁鋅鋼板
55% Al-Zn alloy-
coated steel sheet

經在工業區曝露17年之端面外觀
Edge Appearance of Coated Sheet After
About 17 Years Industrial Exposure
(Bethlehem.PA.U.S.A)



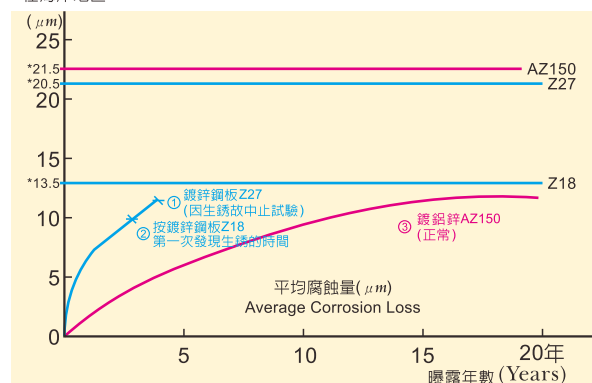
室外曝曬實驗
Outdoor exposure testing

■CORROSION RESISTANCE

The improved corrosion resistance of 55% Al-Zn alloy coated steel coils is derived from the unique combination of the barrier protection of the aluminum and the sacrificial protection of the zinc. The formation of an insoluble aluminum oxide layer provides the barrier protection while the zinc provides a sacrificial protection at cut edges, scratches and areas of coating damage.

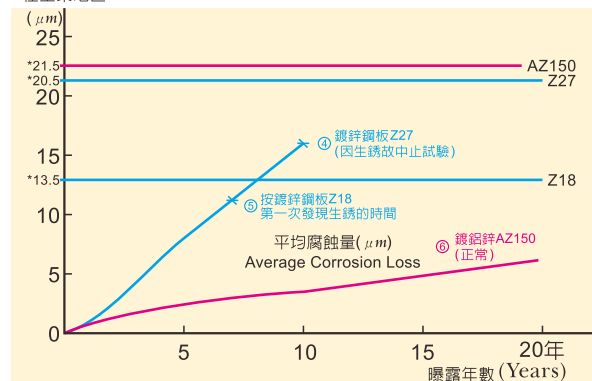
Outdoor exposure testing of 55% Al-Zn alloy-coated steel coils has been conducted for over 20 years in various atmospheric environments. This testing also demonstrated a superior cut edge protection of 55% Al-Zn alloy-coated steel sheet than the galvanized steel sheet.

■在海岸地區 Marine: 25m Kure Beach N.C. USA



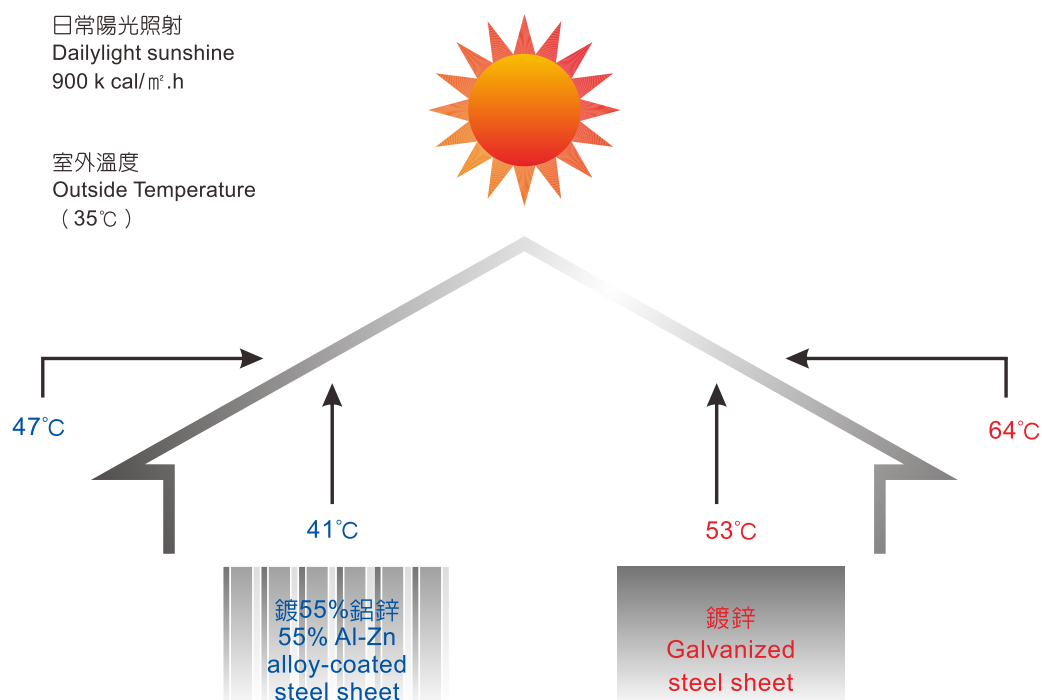
① Galvanized Z27 Red Rust After 4 Years ② Galvanized Z18 Estimated Time to First Red Rust ③ Galvalume Az150 No Red Rust

■在工業地區 Industrial: Bethlehem P.A. USA



④ Galvanized Z27 Red Rust After 4 Years ⑤ Galvanized Z18 Estimated Time to First Red Rust ⑥ Galvalume Az150 No Red Rust

* 每邊平均鍍層厚度 Average Coating Thickness Per Side



■耐熱性

鍍55%鋁鋅合金鋼板之耐熱性比鍍鋅鋼板佳，與鍍鋁鋼板之抗高溫氧化性類似。鍍鋁鋅合金鋼板可用於達315°C的高溫環境。

■反射性

鍍55%鋁鋅合金鋼板具有高度反射率，使其成為抗熱的屏障。

■HEAT RESISTANCE

Similar to the aluminum coated steel sheet that can resist high temperature oxidation, 55% Al-Zn alloy-coated steel sheet demonstrates better resistance to high temperature than the galvanized steel sheet. SYSCO's 55% Al-Zn alloy-coated steel sheet can be used in temperatures up to 315°C.

■HEAT TRANSMISSION AND REFLECTIVITY

55% Al-Zn alloy-coated steel coil has a high reflectivity value making it an effective barrier against heat.

鍍55%鋁鋅&鍍鋅產品特色、比較 Comparison of GL and GI in feature

產品別 Products	GI	GL
規格比較 Comparison of specification	ASTM, JIS, AS	ASTM, JIS, AS
成份比較 Comparison of chemical composition (公稱成份比) Nominal chemical composition ratio	Zn ≥ 97% Al ≤ 0.30%	Al : 50%-60% Si : 1.0-2.0% 其餘為Zn
保護機構 Protection mechanism	Zn : 犧牲保護 Sacrificial protection	Zn : 犧牲保護 Sacrificial protection Al : 障礙層保護 Barrier protection
耐腐蝕性 Corrosion resistance (鹽水噴霧實驗) Salt spray test	1	GI之2~5倍(10倍)
耐熱性 Heat resistance	230°C	300~350°C
熱反射性 Reflectivity	30-45%	70-75%
焊接性 Weldability	鋅煙多	鋅煙少
抗酸雨性 Acid rain resistance	1	GI之6~8倍
耐潮濕性 Humidity resistance (耐濕潤試驗) Humidity test	1	GI之5~6倍
耐酸性 Acid resistance (耐酸雨試驗) Acid rain test	1	GI之6~8倍

※在相同的底材和鍍層厚度下，PPGL每平方米較PPGI輕，可多出1~3%的長度。
In the same thickness of base metal and coating, PPGL has lighter weight per m² and longer length by 1-3% compared to PPGI.

用途

APPLICATIONS



■ 建築材料

樓承板、天花板、陽台、倉庫、屋頂、隔間、牆壁、遮陽天篷、導水天溝、風管工程、地下管道、導管、通氣管、室內裝飾、鐵捲門、窗框、柵欄、鷹架、樑、鋼架、配線盤。

■ 電器用品

爐子、洗衣機、電冰箱背板、除濕機、錄影機、熱水器、電氣加熱器、烤箱、照明器具、日光燈罩、冷凍櫃、空氣調節器、微波爐外殼、電器開關盒、馬達蓋子。

■ 運輸工業

車體內部配板、巴士及卡車後座配板、輸送系統、油箱、道路指標、道路欄杆、貨櫃、空氣淨化器、隔音牆。蓋子。

■ 農業設備

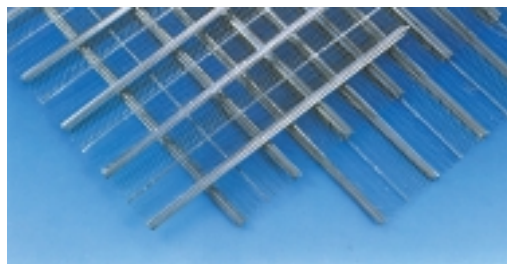
大型穀倉、收藏室、溫室、農業用乾燥機、水槽、飼養器、漏斗容器、灌溉渠、倉庫、筒倉、畜舍、農業用具。

■ 傢俱及其他

自動販賣機、娛樂機器、太陽能集熱器、煙囪管、辦公設備、車庫、圓桶、提桶、三溫暖內部器材、工具箱、鋼製傢俱、垃圾桶、罐。

■ 資訊用品

電腦機殼、通訊器材、液晶顯示器(LCD)、行動電話/手機。





■ BUILDING & CONSTRUCTION

Floor decks, ceilings, verandas, rolling doors, warehouse, partitions, sheds, gutters, wall, underground piping, sashes, beams, fences, scaffolding, indoor decorations, ducts, ventilating pipes, steel frames and cable trays.

■ ELECTRICAL APPLIANCES

Freezers, video recorder cases, motor cases, lighting fittings, water heaters, washing machines, refrigerators, stoves, air conditioners, dehumidifiers, fluorescent light housings, electrical heaters, toasters, microwave oven enclosures and switch boxes.

■ TRANSPORTATION

Containers, under body panels, bus & truck body panels, fuel tanks, noise screens, highway signs, air cleaners, conveyor systems and guard rails.



■ AGRICULTURAL EQUIPMENT

Barns, drying machines, animal houses, hoppers, irrigation systems, greenhouses, water tanks, sheds, silos, agricultural implements and feeders.

■ FURNITURE & OTHERS

Vending machines, drums, cans, pails, sauna inner parts, chimney pipes, entertainment machines, solar collectors, office equipment, steel furniture, tool boxes, garages and waste bins.

■ COMPUTER'S APPLIANCES

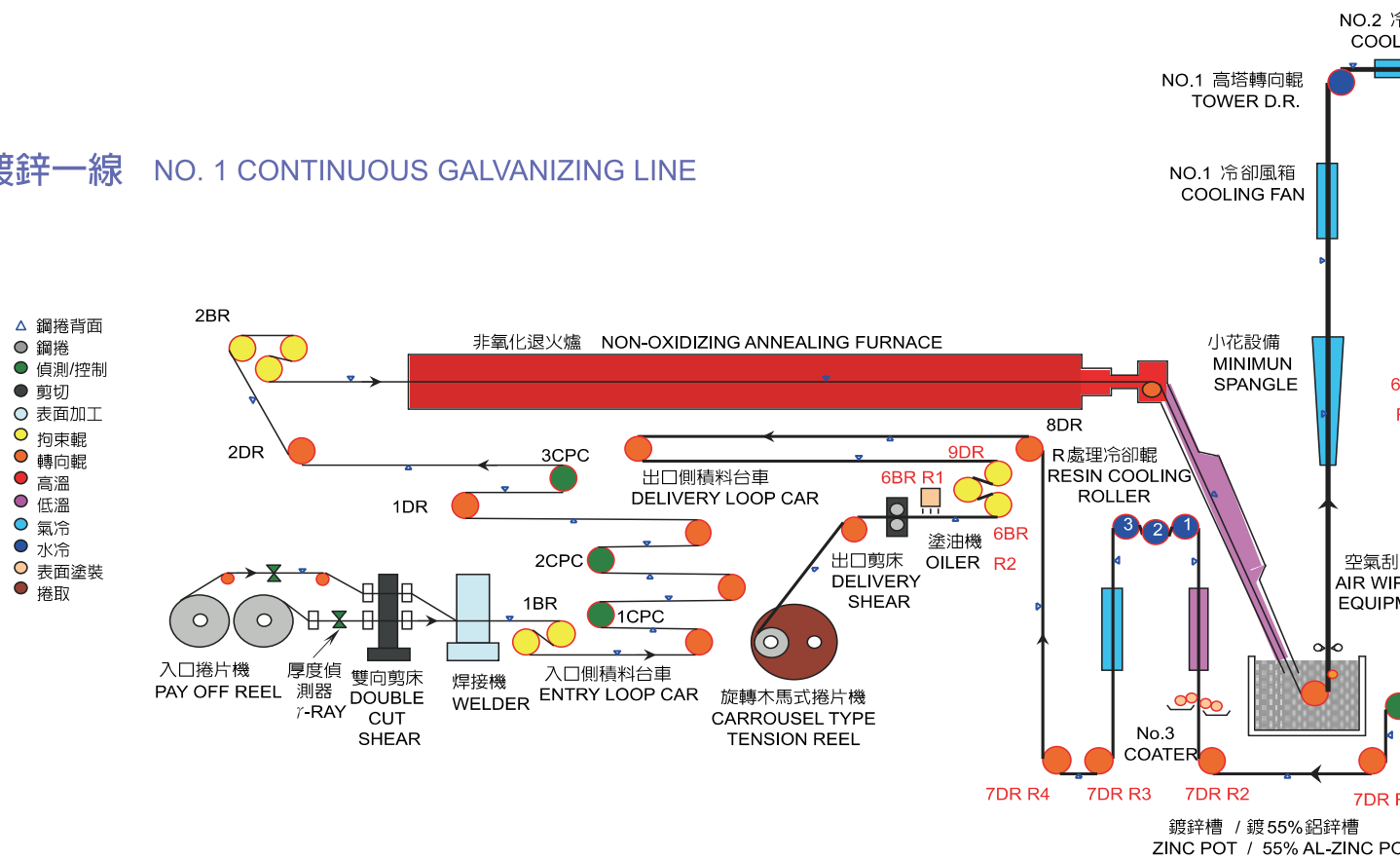
Computer shells and communication instruments.



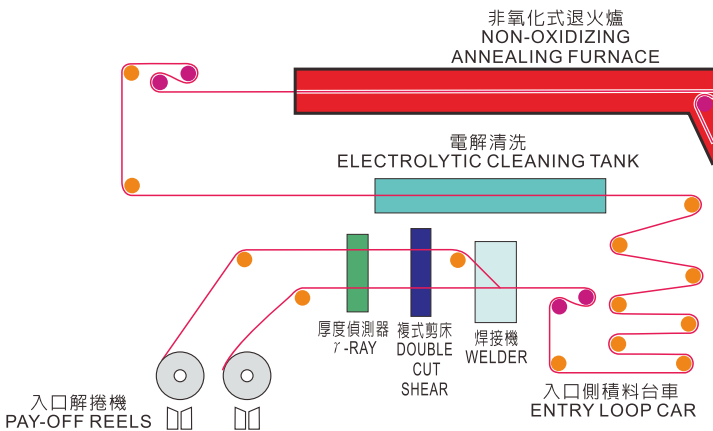
製程

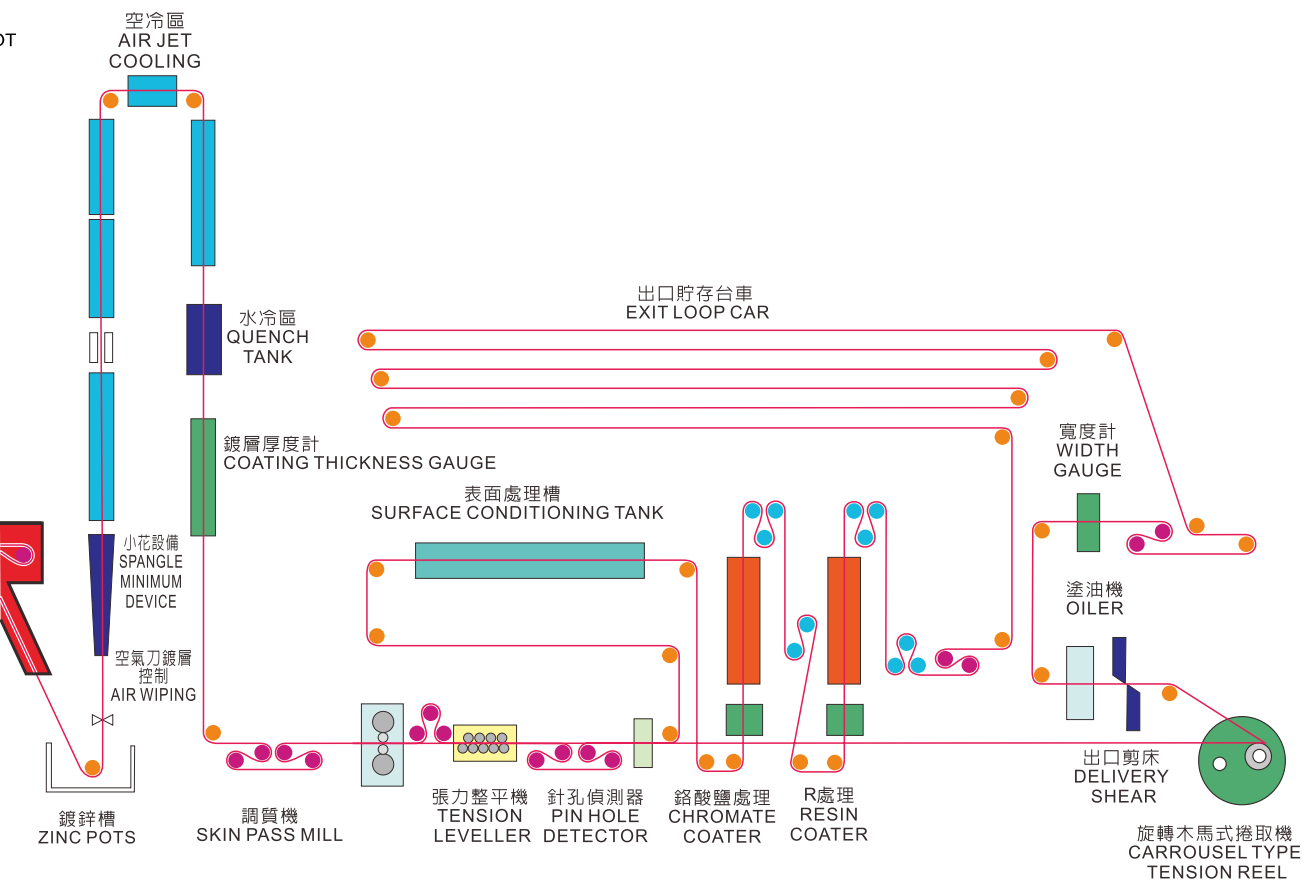
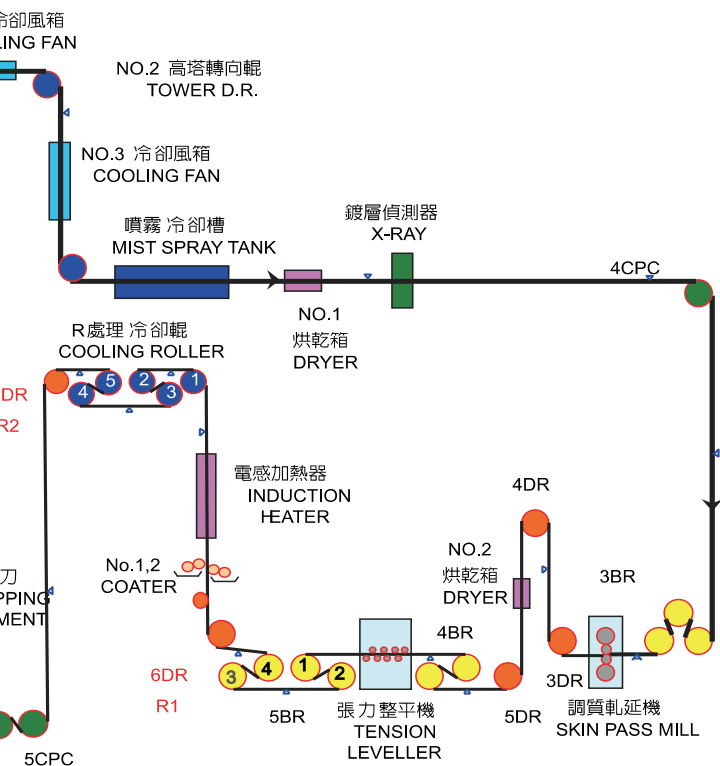
MANUFACTURING PROCESS

鍍鋅一線 NO. 1 CONTINUOUS GALVANIZING LINE



鍍鋅二線 NO. 2 CONTINUOUS GALVANIZING LINE





規格

SPECIFICATION

■ 鍍55%鋁鋅鋼捲

A.可供應尺寸 Sizes Available

品名Product	鍍鋁鋅(GL)
規格Specification	
厚度 (Thickness:mm)	0.17~2.5
寬度 (Width:mm)	600~1310
鋼捲內徑 (ID:mm)	508／610
鋼捲外徑 (OD:mm)	800~2140
最大質量 (Max. Mass:MT)	24

B.鍍鋁鋅重量範圍：50g/m²~300g/m² (兩面總和)

Range of Weight : 50g/m²~300g/m²

C.表面精整：一般花紋、超平滑

Surface : regular spangle, extra smooth

D.可供應鋼捲等級：

一般級、扣鎖成型級、沖壓級、結構級

Grades Available:

commercial, lock forming, drawing and structural grades

熱浸鍍55%鋁鋅鋼捲種類符號 Calssified symbol				最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum (%)					用途 Application
CGL-冷軋底板 cold-rolled base metal			HGL-熱軋底板 Hot-rolled base metal			公稱厚度 Nominal Thickness-t (mm)					
JIS G3321 -2012	SYSCO	CNS 15237 G3271-2013	SYSCO/CNS15237 G3271-2013			0.15 ≤ t < 0.40	0.40 ≤ t < 0.60	0.60 ≤ t < 1.0	1.0 ≤ t < 1.6	1.6 ≤ t < 2.3	
SGLCC	SGLC	SGLCC	SGLHC	(205)	(270)	(20)	(21)	(24)	(24)	(25)	一般用 Commercial
—	SGLH	—	—	—	—	—	—	—	—	—	全硬質一般用 Commercial Hard
SGLCD	SGLD1	SGLCD	—	—	270	—	27	31	32	33	衝壓用 Drawing
—	—	SGLCDD	—	—	270	—	29	32	34	35	深衝壓用 Deep drawing
—	SGL340	SGLC340	—	245	340	18	18	18	18	18	結構用 Structural
SGLC400	SGL400	SGLC400	—	295	400	16	17	18	18	18	結構用 Structural
SGLC440	SGL440	SGLC440	—	335	440	14	15	16	18	18	結構用 Structural
SGLC490	SGL490	SGLC490	—	365	490	12	13	14	16	16	結構用 Structural
—	—	SGLC490M	—	410	490	12	12	13	15	15	結構用 Structural
—	—	SGLC540	—	450	540	8	9	10	10	10	結構用 Structural
—	—	SGLC540M	—	480	540	8	9	10	10	10	結構用 Structural
SGLC570	SGL570	SGLC570	—	560	570	—	—	—	—	—	結構用 Structural
熱浸鍍鋁鋅鋼捲 ASTM A792(M)-2010 ASTM Designation				最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum (%)					用途 Application
CGI-冷軋底板 cold-rolled base metal		HGI-熱軋底板 Hot-rolled base metal									
A792(M) CS Type A,B,C		A792(M) CS Type A,B,C		—	—	—					一般用 Commercial
A792(M) FS		A792(M) FS		—	—	—					扣鎖成型用 Lock Forming
A792(M) DS		—		—	—	—					衝壓用 Drawing
A792(M) SS Grade33(230)		—		33(230)	45(310)	20					結構用 Structural
A792(M) SS Grade37(255)		—		37(255)	52(360)	18					結構用 Structural
A792(M) SS Grade40(275)		—		40(275)	55(380)	16					結構用 Structural
A792(M) SS Grade50(340)		—		50(340)	65(450)	12					結構用 Structural
A792(M) SS Grade60(410)		—		60(410)	70(480)	厚度 Thickness ≤ 0.71mm , EL ≥ 8% 厚度 Thickness > 0.71mm , EL ≥ 10%					結構用 Structural
A792(M) SS Grade80(550)		—		80(550)	82(570)	—					結構用 Structural

備註：

1. ASTM：A792(M)表公制，以()數字表示
2. JIS / SYSCO：()內的數值僅供參考
3. AS、EN、SNI、MS等標準之詳細規格或所需規格不在以上表格內容時，請洽盛餘公司技術處

■ 鍍鋅鋼捲

A.可供應尺寸 Sizes Available

品名Product	鍍鋅(GI)
規格Specification	
厚度 (Thickness:mm)	0.20~2.5
寬度 (Width:mm)	600~1310
鋼捲內徑 (ID:mm)	508/610
鋼捲外徑 (OD:mm)	800~2140
最大質量 (Max. Mass:MT)	24

B.鍍鋅重量範圍 : 60g/m²~450g/m² (兩面總和)

Range of Weight : 60g/m²~450g/m²

C.表面精整 :

一般花紋、微細花紋、超平滑

Surface Treatment: Regular Spangle, Mini Spangle, Extra Smooth

D.可供應鋼捲等級 :

一般級、扣鎖成型級、結構級、沖壓級。

Grades Available :

Commercial grade, lock forming grade, structural grade and drawing grade.

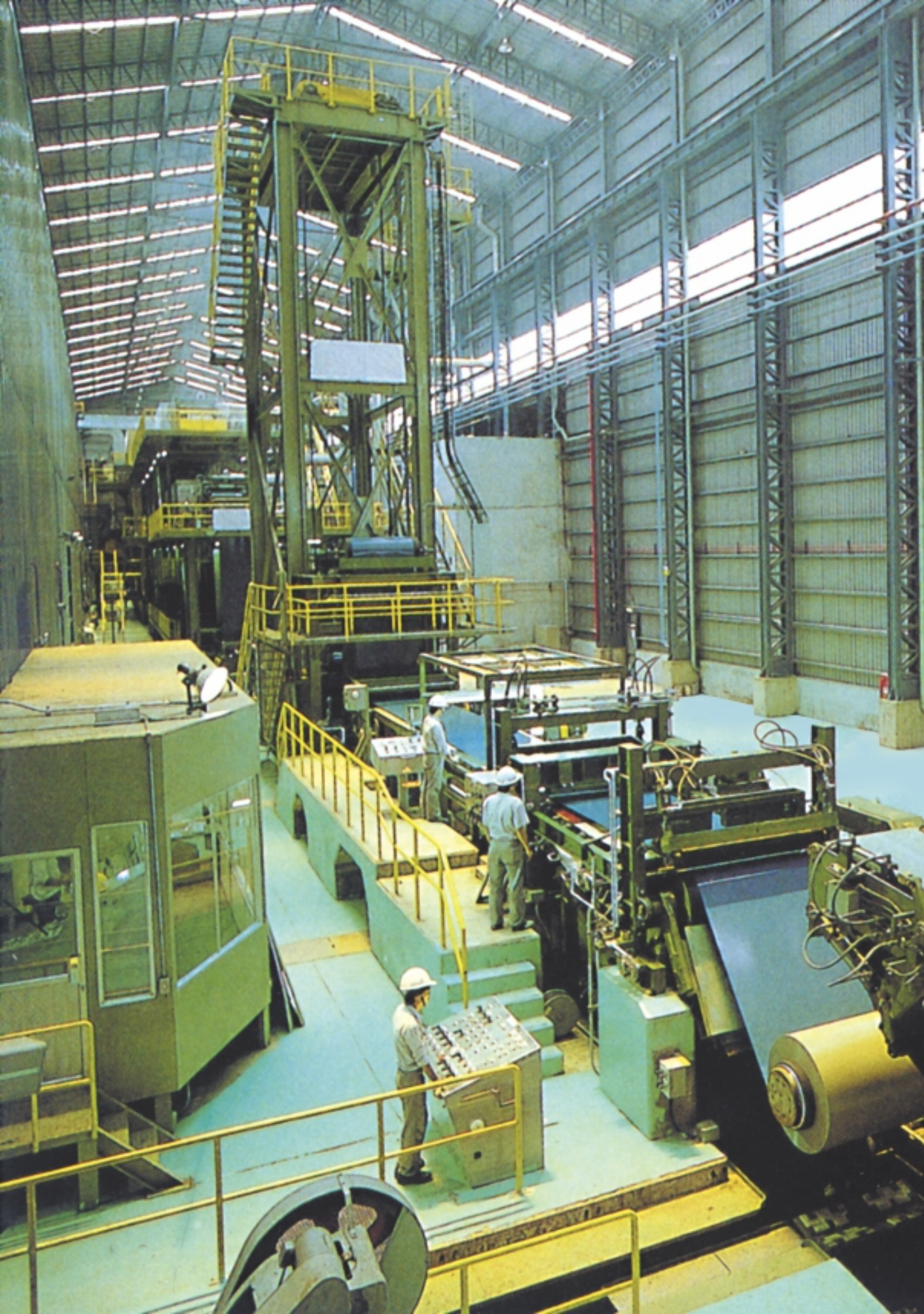
熱浸鍍鋅鋼捲種類符號 Calssified symbol				最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum (%)					用途 Application
CGI-冷軋底板 cold-rolled base metal			HGI-熱軋底板 Hot-rolled base metal			公稱厚度 Nominal Thickness-t (mm)					
JIS G3302 -2012	SYSCO	CNS 1244 G3027-2013	SYSCO/CNS1244 G3027-2013			0.15≤ t <0.40	0.40≤ t <0.60	0.60≤ t <1.0	1.0≤ t <1.6	1.6≤ t <2.5	
SGCC	SGCC	SGCC	SGHC	(205)	(270)	—	—	—	—	—	一般用 Commercial
SGCH	SGCH	SGCH	—	—	—	—	—	—	—	—	全硬質一般用 Commercial Hard
SGCD1	SGCD1	SGCD1	—	—	270	—	34	36	37	38	衝壓一級 Drawing
—	SGCD2	SGCD2	—	—	270	—	36	38	39	40	衝壓二級 Drawing
SGC340	SGC340	SGC340	—	245	340	20	20	20	20	20	結構用 Structural
SGC400	SGC400	SGC400	—	295	400	18	18	18	18	18	結構用 Structural
SGC440	SGC440	SGC440	—	335	440	18	18	18	18	18	結構用 Structural
SGC490	SGC490	SGC490	—	365	490	16	16	16	16	16	結構用 Structural
—	—	SGC490M	—	410	490	12	12	12	12	12	結構用 Structural
—	—	SGC540	—	450	540	10	10	10	10	10	結構用 Structural
—	—	SGC540M	—	480	540	9	9	9	9	9	結構用 Structural
SGC570	SGC570	SGC570	—	560	570	—	—	—	—	—	結構用 Structural
熱浸鍍鋅鋼捲 ASTM A653(M)-2013 ASTM Designation				最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum(%)					用途 Application
CGI-冷軋底板 cold-rolled base metal		HGI-熱軋底板 Hot-rolled base metal									
A653(M) CS Type A,B,C		A653(M) CS Type A,B,C		—	—	—					一般用 Commercial
A653(M) FS Type A,B		A653(M) FS Type A,B		—	—	—					扣鎖成型用 Lock Forming
A653(M) DDS Type A		—		—	—	—					衝壓用 Drawing
A653(M) SS Grade33(230)		—		33(230)	45(310)	20					結構用 Structural
A653(M) SS Grade37(255)		—		37(255)	52(360)	18					結構用 Structural
A653(M) SS Grade40(275)		—		40(275)	55(380)	16					結構用 Structural
A653(M) SS Grade50(340)		—		50(340)	65(450)	12					結構用 Structural
A653(M) SS Grade60(410)		—		60(410)	70(480)	厚度 Thickness ≤ 071mm , EL ≥ 8% 厚度 Thickness > 071mm , EL ≥ 10%					結構用 Structural
A653(M) SS Grade80(550)		—		80(550)	82(570)	—					結構用 Structural

備註 :

1. ASTM : A792(M)表公制, 以 () 數字表示

2. JIS / SYSCO : () 內的數值僅供參考

3. AS、EN、SNI、MS等標準之詳細規格或所需規格不在以上表格內容時, 請洽盛餘公司技術處





鍍55%鋁鋅烤漆鋼捲 / 鍍鋅烤漆鋼捲

PREPAINTED 55% Al-Zn ALLOY-COATED STEEL COILS / GALVANIZED STEEL COILS

鍍(鋁)鋅鋼捲之耐蝕性雖強，但爲了改變單調、無變化的表面，在鍍(鋁)鋅鋼捲表面經塗裝、烘烤等作業，生產出美觀、耐蝕性更高的鍍(鋁)鋅烤漆鋼捲。

55%Al-Zn alloy-coated steel sheets and galvanized steel sheets have excellent corrosion resistance. However, to improve their dull and changeless surface, color coating and baking on the surface of 55%Al-Zn alloy-coated steel sheets and galvanized steel sheets produce beautiful and high corrosion resistant prepainted steel sheets.

■特性

- (1)表面顏色有選擇性：配合環境使用可呈現整體景觀，增加價值感。
- (2)耐環境的優越性：如耐熱性、耐蝕性、耐濕性、耐候性……等。
- (3)耐屈曲性、耐衝擊性及耐酸耐鹼性：優越的加工性與耐化學性是鍍(鋁)鋅烤漆鋼捲在現代被大量使用的原因。

■CHARACTERISTICS

- (1)Many colors are available to match the environment and attach value to the appearance.
- (2)Superior resistance against environment : Heat resistance, corrosion resistance, humidity resistance, weather proof, etc..
- (3)Formability, impact resistance, and acid/alkali resistance, superior workability and chemical resistance are the major reasons for the popularity of prepainted 55%Al-Zn alloy-coated and galvanized steel sheets.

烤漆層

PAINT COATING SYSTEMS



■ 烤漆耐久性等級

CLASSIFICATION OF DURABILITY OF PAINT COATING AND DESIGNATIONS

耐久性種類 Classification of durability	代 號 Symbol	塗裝系統 Paint coating system	耐久性試驗 Durability test	
			鹽水噴霧試驗 Duration of salt spray test	加速耐候試驗 (參考用) Duration of dew-cycle type accelerated weathering test(for reference)
第一類 Class 1	1	塗一層 one-coat	200小時 hours	—
第二類 Class 2	2	塗二層 two-coat	500小時 hours	—
第三類 Class 3	3	塗二層或以上 two-coat or more	2000小時 hours	1500小時 hours

備註：依據 JIS 3312-2012 或 JIS 3322-2012

■ 烤漆層面標準

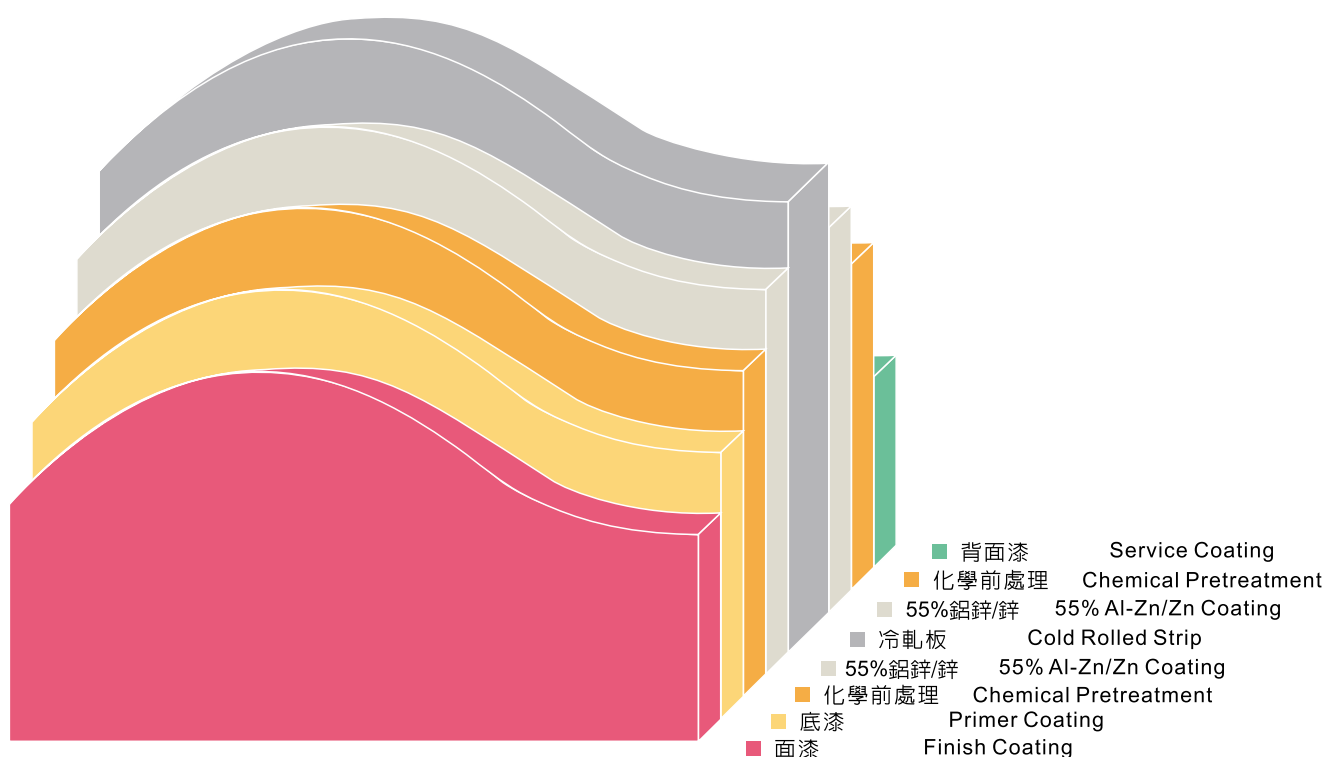
PAINT COATING SYSTEMS AVAILABLE AS STANDARD

產品名稱 Products	正面 Front Side		背 面 Reverse Side
	底漆 Primer Coating	面漆 Finish Coating	
聚酯樹脂彩色鍍面鋼捲 Polyester Coated	環氧樹脂底漆 / 聚氨基甲酸乙酯樹脂底漆 Epoxy Primer / Polyurethane Primer(PU)	一般聚酯樹脂(PE) Regular Polyester	背面漆 Service Coating
矽化聚酯樹脂彩色鍍面鋼捲 Silicon Modified Polyester Coated		矽化聚酯樹脂(SMP) Silicon Modified Polyester	
聚偏二氟乙烯樹脂彩色鍍面鋼捲 P.V.D.F. Coated		聚偏二氟乙烯樹脂(PVDF) Polyvinylidene Floride	
超低光澤強化樹脂彩色鍍面鋼捲 Super Low Gloss Polyester Coated		強化聚酯樹脂 Super Modified Polyester	

■ 烤漆層剖面圖 SECTIONAL VIEWS OF PAINT COATING SYSTEMS

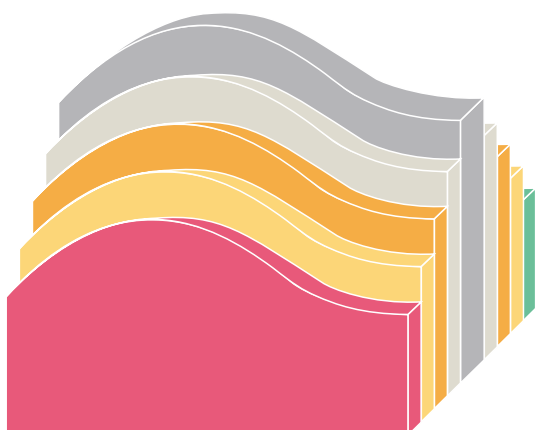
1. 標準產品：正面：底漆+面漆 / 背面：背面漆

Standard Product, primer plus finish coating on the front side, service coating on the reverse side.



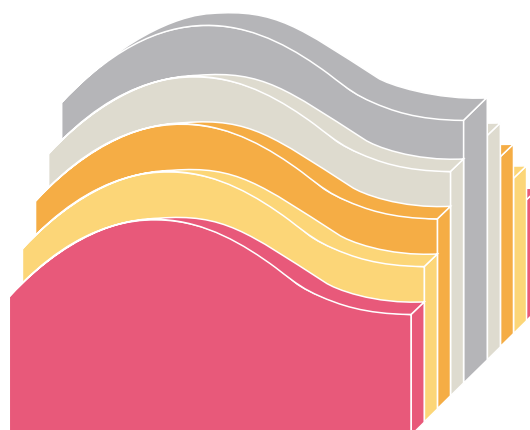
2. 正面：底漆+面漆 / 背面：底漆+背面漆

Primer plus finish coating on the front side, primer plus service coating on the reverse side.



3. 正面：底漆+面漆 / 背面：底漆+面漆

Primer plus finish coating on both sides.



用途

APPLICATIONS



■ 建築及結構工程

屋頂、牆壁、窗框、捲門、防雨門、各種固定物隔間、天花板、圍牆、儲藏室。

■ 傢俱用具及辦公設備

鐵製傢俱、隔間、窗簾、牆、百葉窗、白板、綠板。

■ 電氣及照明設備

洗衣機、電冰箱、冷凍室、日光燈罩、配電盤箱、馬達箱、影印機。

■ 廚房設備

烤箱廚檯、洗滌槽、廚具、架子、浴廁設備、煮飯鍋鍋面板。

■ 農業用具

乾燥機及其他農業設備、溫室、筒倉、穀倉、倉庫。

■ 運輸工業

空氣淨化器、各種配管、船舶用各類配板、石油淨化器、駕駛座前配板。

■ 箱型容器設備及其他

各種販賣機、陳列櫥窗、罐、壓縮型容器、收藏室、標誌板。

■ 瓦斯煤油設施

加熱器、瓦斯爐、煤油箱、熱水設備、導管。



■ BUILDING & STRUCTURAL ENGINEERING

Roofing, sidings, sheds, rolling doors, rain proof doors, partitions, ceilings, fences and storerooms.

■ FURNITURE & OFFICE EQUIPMENT

Steel furniture, partitions, window curtains, walls shutters, whiteboard and blackboard.

■ ELECTRICAL APPLIANCES & LIGHTING FITTINGS

Washing machines, refrigerators, freezing chambers, fluorescent light housings, distribution boards, motor cases and photocopiers.

■ KITCHEN EQUIPMENT

Ovens, kitchen cabinets, washing tanks, kitchen utensils, shelves, bathroom and toilet equipment, cookers and oven cases.

■ AGRICULTURAL EQUIPMENT

Dryers and other agricultural equipment, greenhouses, silos, barns and warehouses.

■ TRANSPORTATION

Air cleaners, various pipes, instrument boards for vessels, oil purifiers and instrument boards of cars.

■ BOX CONTAINER AND OTHERS

Various kinds of vending machines, show windows, cans, compressed containers, store rooms and signal boards.

■ GAS & FUEL EQUIPMENT

Heaters, gas ovens, oil tanks, water heaters and ducts.



製程

MANUFACTURING PROCESS

■ 烤漆製程

1. 入口端緩衝區

烤漆線入口端緩衝區，將鍍55%鋁鋅或鍍鋅的底板，藉銲(銲)接機的連接與緩衝機作用，使得烤漆生產作業能連續運轉。

2. 化學前處理區

底板經化學前處理區皮膜化成處理，將底板處理成最佳狀態，並藉適當的化學藥劑作用，增加底板之腐蝕抵抗性，並提高漆膜結合性。

3. 塗漆烘烤、印刷及貼皮區

將漆料之塗佈量標準，藉塗輥輪與塗裝方式均勻的塗佈於底板，經底漆烘烤爐與面漆烘烤爐而完成塗料烘烤、印刷及貼皮作業。

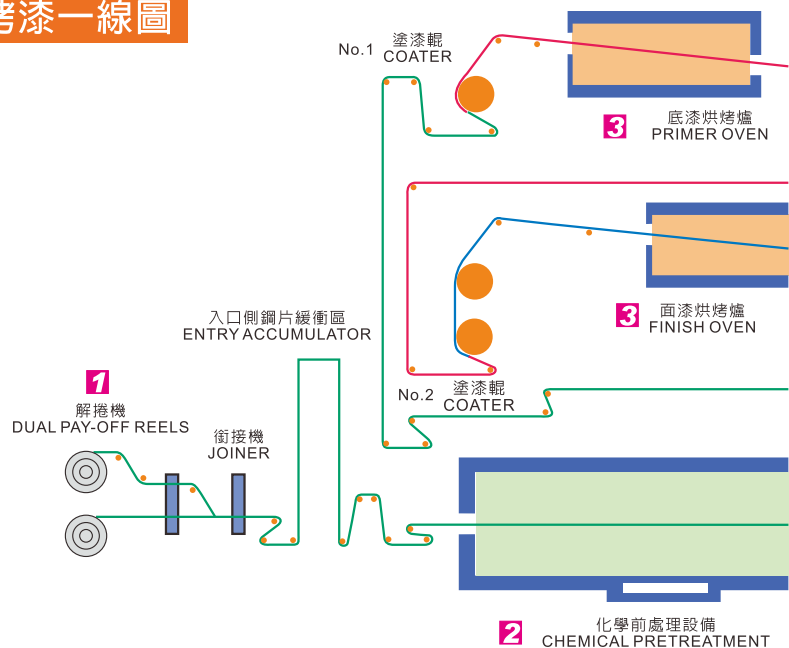
4. 張力整平

為使烤漆鋼捲有最佳的平坦度且符合客戶的要求。

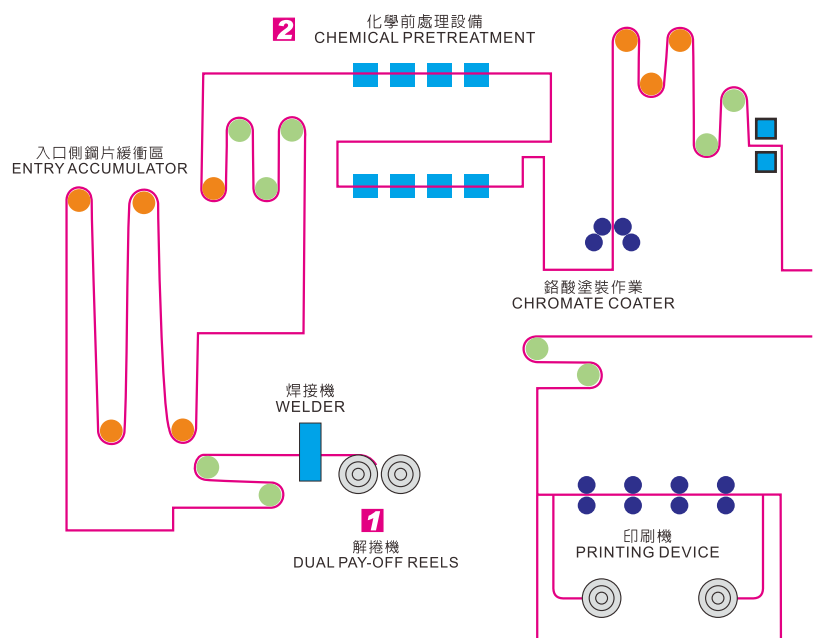
5. 出口區

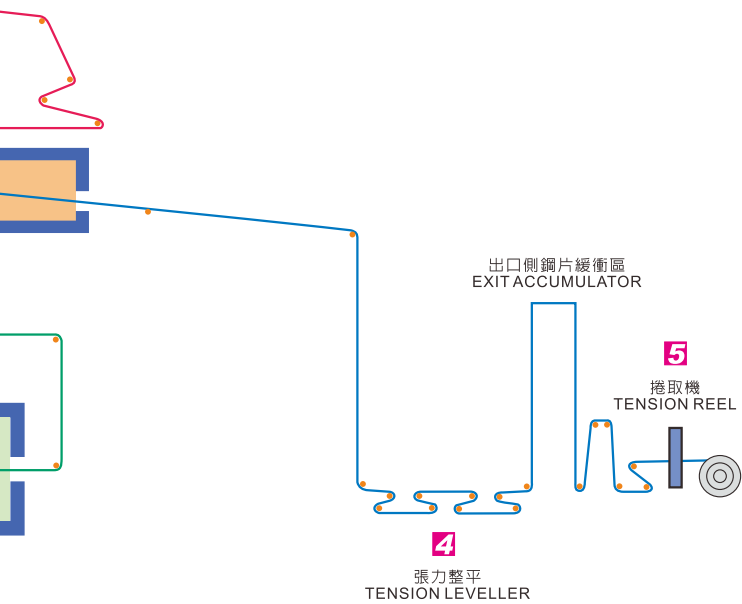
緩衝機的配合使用，將烤漆鋼捲依客戶需求，進行分切作業，同時本區為確保烤漆鋼捲品質，作業人員依品保規定做適當處理。

烤漆一線圖



烤漆二線圖





The diagram illustrates the 4th stage of the production process, which involves laminating and finishing. The material, represented by a pink line, enters from the left and passes through a '貼皮機' (Laminating Device) where a blue square is applied. It then moves through a '面漆烘烤爐' (Finish Oven), depicted as an orange rectangle. Following the oven, the material passes through a '張力整平機' (Tension Leveller), shown as a series of rollers. The final step is '面漆塗裝作業' (Finish Paint Coater), where blue dots are applied to the surface. The entire stage is numbered '4' in a pink box at the top.

4
張力整平機
TENSION LEVELLER

面漆塗裝作業
FINISH PAINT COATER

面漆烘烤爐
FINISH OVEN

貼皮機
LAMINATING DEVICE

捲
TENS

The finished products are cut to the coil sizes specified by the customers . Meanwhile, to ensure the quality of the steel coils, the operators make appropriate treatment on the finished products in compliance with the quality assurance regulation.

規格

SPECIFICATION

■ 鍍55%鋁鋅烤漆鋼捲 Prepainted 55% Al-Zn Alloy-coated Steel Coils

可供應尺寸 Sizes Available

規格Specification	品名Product 盛餘烤漆熱浸鍍鋅鋼捲 (PPGL)
厚度 (Thickness:mm)	0.17~1.2
寬度 (Width:mm)	600~1310
鋼捲內徑 (ID:mm)	508/610
鋼捲外徑 (OD:mm)	782~1600
最大質量 (Max. Mass:MT)	13.5

熱浸鍍55%鋁鋅鋼捲 種類符號 Classified symbol			最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum %				用途 Application
JIS G3322-2012	中華民國國家 標準規格CNS SPECIFICATION	盛餘規格 SYSCO SPECIFICATION			公稱厚度 Nominal Thickness mm(t)				
					0.25 ≤ t < 0.40	0.40 ≤ t < 0.60	0.60 ≤ t < 1.0	1.0 ≤ t < 1.6	
CGLCC	CGLCC	CGLC	(205)	(270)	(20)	(21)	(24)	(24)	一般用 Commercial
CGLCD	CGLCD	CGLD1	—	270	—	27	31	32	衝壓用 Drawing
—	CGLCDD	—	—	270	—	29	32	34	衝壓用 Drawing
—	CGLC340	CGL340	245	340	20	20	20	20	結構用 Structural
CGLC400	CGLC400	CGL400	295	400	16	17	18	18	結構用 Structural
CGLC440	CGLC440	CGL440	335	440	14	15	16	18	結構用 Structural
CGLC490	CGLC490	CGL490	365	490	12	13	14	16	結構用 Structural
—	CGLC490M	—	410	490	12	12	13	15	結構用 Structural
—	CGLC540	—	450	540	9	10	10	10	結構用 Structural
—	CGLC540M	—	480	540	9	10	10	10	結構用 Structural
CGLC570	CGLC570	CGL570	560	570	—	—	—	—	結構用 Structural
ASTM代號 ASTM Designation 2010版			最小降伏點 Yield Point, Min ksi(MPa)	最小抗拉強度 Tensile Strength, Min ksi(MPa)	最小伸長率 Elongation Minimum %				用途 Application
A792(M) CS TYPE A,B,C			—	—	—				一般用 Commercial
A792(M) FS			—	—	—				扣鎖成型用 Lock
A792(M) DS			—	—	—				衝壓用 Drawing
A792(M) SS GRADE33(230)			33(230)	45(310)	20				結構用 Structural
A792(M) SS GRADE37(255)			37(255)	52(360)	18				結構用 Structural
A792(M) SS GRADE40(275)			40(275)	55(380)	16				結構用 Structural
A792(M) SS GRADE50(340)			50(340)	65(450)	12				結構用 Structural
A792(M) SS GRADE60(410)			60(410)	70(480)	10				結構用 Structural
A792(M) SS GRADE80(550)			80(550)	82(570)	—				結構用 Structural

備註：

- (1).ASTM：A792(M)表公制，以()數字表示
(2).JIS / CNS / SYSCO：【】內的數值僅供參考
(3).EN標準之詳細規格或所需規格不在以上表格內容時，請洽盛餘公司技術處

■ 鍍鋅烤漆鋼捲 Prepainted Galvanized Steel Coils

可供應尺寸 Sizes Available

規格Specification	品名Product 盛餘鍍鋅烤漆鋼捲 (PPGI)
厚度 (Thickness:mm)	0.20~1.2
寬度 (Width:mm)	600~1310
鋼捲內徑 (ID:mm)	508/610
鋼捲外徑 (OD:mm)	782~1600
最大質量 (Max. Mass:MT)	13.5

熱浸鍍鋅鋼捲 種類符號 Classified symbol			最小降伏點 Yield Point Minimum N/mm ²	最小抗拉強度 Tensile Strength Minimum N/mm ²	最小伸長率 Elongation Minimum %				用途 Application
JIS G3322-2012	中華民國國家 標準規格CNS SPECIFICATION	盛餘規格 SYSCO SPECIFICATION			公稱厚度 Nominal Thickness mm(t)				
					0.25 ≤ t <0.40	0.40 ≤ t <0.60	0.60 ≤ t <1.0	1.0 ≤ t <1.6	
CGCC	CGCC	CGCC	(205)	(270)	—	—	—	—	一般用 Commercial
CGGH	CGCH	CGCH			—	—	—	—	全硬質一般用 Commercial Hard
CGCD1	CGCD1	CGCD1		270	—	34	36	37	衝壓用 Drawing
—	CGCD2	CGCD2		270	—	36	38	39	衝壓用 Drawing
CGC340	CGC340	CGC340	245	340	20	20	20	20	結構用 Structural
CGC400	CGC400	CGC400	295	400	18	18	18	18	結構用 Structural
CGC440	CGC440	CGC440	335	440	18	18	18	18	結構用 Structural
CGC490	CGC490	CGC490	365	490	16	16	16	16	結構用 Structural
—	CGC490M	—	410	490	12	12	12	12	結構用 Structural
—	CGC540	—	450	540	10	10	10	10	結構用 Structural
—	CGC540M	—	480	540	9	9	9	9	結構用 Structural
CGC570	CGC570	CGC570	560	570	—	—	—	—	結構用 Structural
ASTM代號 ASTM Designation 2011版		最小降伏點 Yield Point, Min ksi(MPa)	最小抗拉強度 Tensile Strength, Min ksi(MPa)	最小伸長率 Elongation Minimum %				用途 Application	
A653(M) CS TYPE A,B,C		—	—	—				一般用 Commercial	
A653(M) FS TYPE A,B		—	—	—				扣鎖成型用 Lock Forming	
A653(M) DDS TYPE A		—	—	—				衝壓用 Drawing	
A653(M) SS GRADE33(230)		33(230)	45(310)	20				結構用 Structural	
A653(M) SS GRADE37(255)		37(255)	52(360)	18				結構用 Structural	
A653(M) SS GRADE40(275)		40(275)	55(380)	16				結構用 Structural	
A653(M) SS GRADE50(340)		50(340)	65(450)	12				結構用 Structural	
A653(M) SS GRADE60(410)		60(410)	70(480)	10				結構用 Structural	
A653(M) SS GRADE80(550)		80(550)	82(570)	—				結構用 Structural	

備註：

(1).ASTM：A653(M)表公制，以()數字表示

(2).JIS / CNS / SYSCO：【】內的數值僅供參考

(3).EN標準之詳細規格或所需規格不在以上表格內容時，請洽盛餘公司技術處

■高雄東帝士八十五層大樓
樓層板，使用盛餘鍍鋅鋼板
Tuntex 85-story Tower, Kaohsiung City
Deck used with SYSCO Galvanized Steel



■花蓮海洋公園 Hualien Ocean Park



■花蓮縣東里國小 Dongli Elementary School, Hualien County

代表性實績介紹 REPRESENTATIVE APPLICATIONS



■ 高雄IKEA Kaohsiung IKEA



■ 台北捷運站
Rapid Transit Station, Taipei City



■ 台灣水泥花蓮廠
Hualien Factory of Taiwan Cement Corp.



■ 大陸核電廠
Nuclear Power Plant, China



■ 宜蘭體育館
Stadium, Yilan

特殊產品

SPECIAL PRODUCTS

1. 巴洛克鋼板

結合特殊壓印技術與高科技面漆之巴洛克鋼板是盛餘公司最新開發之專利烤漆鋼品。其表面具有同素面PVC貼皮或PVC烤漆壓花鋼板的凹凸面外觀，是新一代兼顧表面立體紋路外觀與環保的專利產品。此產品適用於室內裝潢隔間、冷凍庫與戶外用琉璃鋼瓦…等用途。

2. 印刷烤漆鋼板

本公司具備可生產三重色彩的印刷烤漆鋼板生產設備，可依客戶的需求印刷色彩鮮艷的圖案於烤漆鋼板上，具有經濟、環保的優點，可用於家電外殼、建築物室內高級門板、隔間板。

3. 家電用烤漆鋼板

使用高加工性塗料經特殊方法生產之家電用烤漆鋼板，具有板面平滑亮麗及耐加工性之優點。此外，家電用預塗裝烤漆鋼板亦可替家電製造商節省巨額的烤漆製造成本。目前已廣泛使用在冰箱側板、烤箱及微波爐外殼。

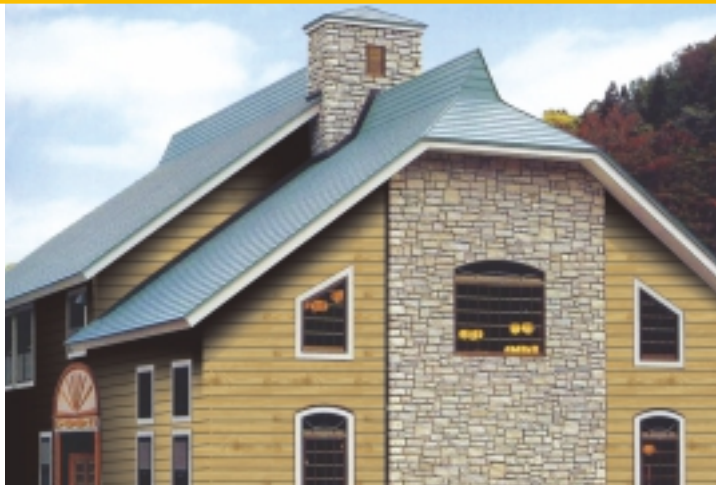
4. 低光澤烤漆鋼板

低光澤烤漆鋼板有兩種型式：一種為光澤度小於10%之超低光澤烤漆鋼板；另一種為光澤度小於20%之低光澤烤漆鋼板。這兩種低光澤烤漆鋼板，兼具藝術與創意之表面特性。使用於屋外時，比一般PE烤漆鋼板和SMP烤漆鋼板具有更優良的耐候性，不僅不易粉化、褪色，且加工性佳，加工成型時不易產生龜裂，適用於金屬瓦等高加工屋面板。用於室內裝潢、傢俱時，其外觀色澤優雅、柔和之低光特質，凸顯出視覺與觸感極佳的高級質感。而其塗膜之優良耐刮性，對加工製作者而言，可降低不良率並提高生產效率。

5. 抗靜電烤漆鋼板

採用特殊抗靜電塗料所生產的抗靜電烤漆鋼板，表面電阻介於 $10^6 \sim 10^9 \Omega/\text{m}^2$ ，具有抗靜電效果，可防止半導體電子元件之靜電破壞、粉塵吸附危害。應用在需抗靜電及高清淨無塵的作業場所，例如半導體電子公司之無隔間用板。





■ SPECIAL PRODUCTS

1. Baroque color steel sheet

A combination of special roller embossing technique and high-tech polyester topcoat, has been recently developed by Sheng Yu Steel Co., Ltd. as a series of newly- patented prepainted products. Similar to the uneven appearance of PVC laminated or embossed PVC-coated color sheet steel, Baroque color sheet steel yet outperforms in the wearer resistance, Baroque represents the new generation of patented steel products, not only provided with pleasant embossing appearance but also environmental friendliness. This kind of product is suitable for the application of interior decoration partition, refrigerator and outdoor roof tile, etc..

2. Printed color steel sheet

SYSCO's No. 2 CCL is equipped with a triple-color printing device to produce fascinating color printed steel sheets according to customers' requirements. This product has an advantage of lower cost and better environment protection and is suitable for the use of high-level external shells of electrical appliances, furniture, internal doors and partition walls of the building.



3. Prepainted steel sheet for electrical appliances

The prepainted steel sheet, produced through special method by using high workable paint, is characterized by its smooth and bright surface and high workability. In addition, this kind of steel sheet can save huge cost in painting for electrical appliances manufacturers. At present, it has been used widely in the sideboard of refrigerators, ovens and microwave ovens.

4. Extra low gloss prepainted coated steel sheet

There are two types of extra low gloss prepainted steel sheet: one is Super Low Gloss Polyester Coated Steel Sheet with gloss of $(60^\circ) < \sim 10\%$, and the other is Super Low Gloss Polyester Coated Steel Sheet with a luster of $(60^\circ) < \sim 20\%$. Both types of extra low gloss coated steel have the artistic and innovative specificity on the surface. When it is used outdoors, it demonstrates better weather proof than PE and SMP coated steel sheets. Chalking and fading are not easily found in this product. Moreover, it has outstanding workability and is suitable for tile roofing. When it is used for interior decoration or furniture, its graceful appearance and luster and soft light quality enhance the physical and visual quality of the furniture and create a better tactile impression.

5. Anti-static prepainted steel sheet

The anti-static prepainted steel sheet, produced by using special anti-static paint, has a surface electric resistance between $10^6 \sim 10^9 \Omega / m^2$. Its anti-static effect may prevent the semi-conductor electronic components from static damage and attachment of powder dust. It can be used in working places requiring anti-static, clean and dust free environments, such as partition board for clean rooms of semi-conductor electronic companies.

特殊產品

SPECIAL PRODUCTS

6. 白板

採用特殊塗料及製程生產之烤漆白板，具有表面高質感、高平坦度，且書寫性、消去性及耐書寫性均優的特性。尤其「消去性」遠優於一般市售白板，其板面擦拭時不易殘留字跡。可用於學校、補習班教學用白板或公司行號及家庭用記事板。

7. 綠板

採用特殊塗料生產之烤漆綠板，具有表面高質感、高硬度、對粉筆之書寫性及消去性極佳之特性，可用於學校、補習班教學用黑板，取代國外進口品。

8. 一般用途抗指紋鍍鋁鋅鋼板

以特殊抗指紋藥劑做表面處理之鍍鋁鋅鋼板，具有輾壓成型時免用潤滑油、成型容易及優異耐腐蝕之特性，可防止鍍鋁鋅鋼板戶外堆疊黑化及加工搬運過程之表面污染，主要用於廠房屋頂及牆面。由於表面抗指紋膜之加工潤滑特性，亦可用於需沖壓加工成型之零組件，如乾衣機滾筒、冰箱背板等。

9. 電腦機殼用無鉻型抗指紋鍍鋁鋅鋼板

採用無鉻型抗指紋藥劑做表面處理之低鍍層量鍍鋁鋅鋼板，具有環保、加工成型性佳、上漆性佳及低表面電阻等特點，可用於電腦機殼及零組件。由於製程中所使用的抗指紋劑不含鉻，可降低對環境的污染，是具有環保概念之電腦機殼用板。

10. 單面烤漆抗指紋鍍鋅鋼板

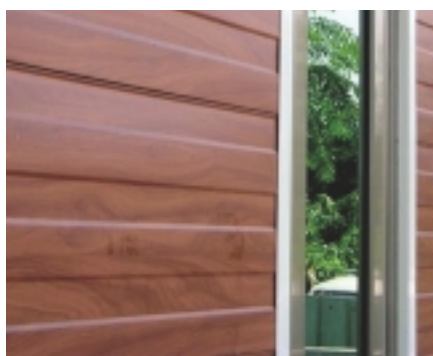
採用特殊塗料及製程之單面烤漆抗指紋鍍鋅鋼板、主要用於電腦外殼，除了可降低傳統電腦外殼成型後，噴漆過程對環境之污染，還可降低終端客戶之生產成本。其特點為單面烤漆塗裝未塗裝面仍具有低表面電阻及抗指紋的性能，且烤漆面具有質感佳、高良率及加工成型性優異等特性。

11. 高鮮映烤漆鋼板

採用特殊組成塗料所生產的高鮮映烤漆鋼板，板面具有類似鏡面之超高光澤，色彩鮮豔且加工性佳。目前應用於車廂內部之裝潢或超高光澤之家電產品。



■ 高鮮映烤漆鋼板 Highly bright color steel



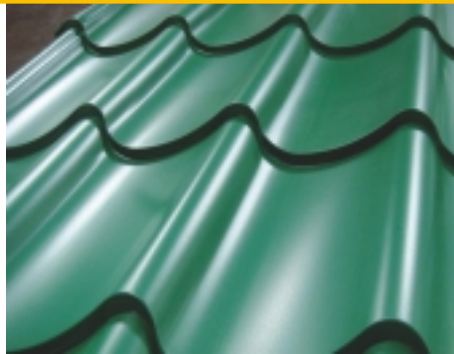
■ 印刷烤漆鋼板 Printed color steel



■ 花壓烤漆鋼板 Baroque color steel



■ 白板烤漆鋼板 Whiteboard



■ 低光澤烤漆鋼板 Extra low gloss



■ 無鉻型抗指紋鍍鋁鋅鋼板 No-chromium anti-fingerprint Al-Zn alloy-coated steel

6.Whiteboard

The whiteboard coated with special coating is produced through special manufacturing process. It not only possesses high quality and flatness, but is also good for writing, erasing, and writing endurance. Its "erasability" is especially better than normal whiteboards available on the market. It leaves no marks after wiping. It is suitable as a teaching board in schools, and recording boards for companies and households.

7.Greenboard

The greenboard with special coating has high quality surface and hardness. It is also good for writing and has outstanding erasability. It can replace the imported product as a teaching blackboard at schools.

8.Anti-fingerprint 55% Al-Zn alloy-coated steel sheet (AFT-GL)for general use

The anti-fingerprint 55% Al-Zn alloy-coated steel sheet, treated with special anti-dactylogram agent on the surface is lubrication free, easy forming and has outstanding corrosion resistance during the process of roll forming. It is able to prevent the AFT-GL from turning black, when it is piled up outdoors or polluted in the course of processing and transportation. It is mainly used as a material of roofing and walls of factory buildings. Owing to the lubrication feature of AFT-GL surface, this product can also be punched to form spare parts for cylinders of clothes dryers, back boards of refrigerators, etc.

9.No-chromium anti-fingerprint 55% Al-Zn alloy-coated steel sheet for computer case

55% Al-Zn alloy-coated steel sheet, treated with no-chromium anti-fingerprint agent on the surface is known for environmental protection, good workability, superior lacquering, low surface electric resistance, etc. It can be used for computer cases and their components. The anti-fingerprint agent, used in manufacturing process contains no chromium, and can keep the product environmentally friendly and reduce pollution.

10.Single side prepainted anti-fingerprint galvanized steel sheet

Single side prepainted anti-fingerprint galvanized steel sheet that adopts special coating and manufacturing process is mainly used for computer cases. In addition to reducing the environmental pollution during paint spraying process of traditional painting after the case is formed, it can also reduce the production cost of end users. The single side lacquer coating is characterized by the low surface electric resistance and anti-fingerprint galvanized ability on the side without coating, while the lacquer-coated side still has good quality and high forming ability.

11.Highly bright color steel sheet

Highly bright color steel sheet adopts special coating to produce ultra-high luster similar to mirror face, bright color and high workability. Presently, it is applied to the decoration inside vehicles or ultra-high luster household appliances.

品質保證

QUALITY GUARANTEE

盛餘累積多年專業製造、品管、試驗等經驗，集結國內一流、資深專業技術人力和世界最先進之設備，以健全的組織和制度，通過JIS、CNS、QC080000、SNI、ISO9001及ISO14001等多項認證，執行最有效率和效果的品管控制及試驗作業。

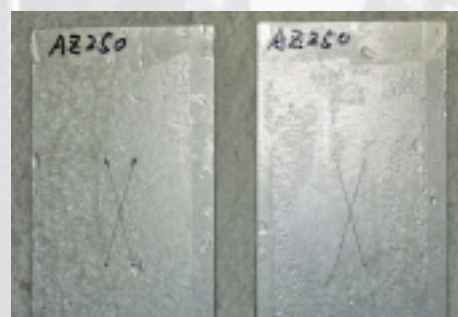
Qualified by JIS and CNS, Qc080000, SNI, ISO-9001 and ISO-14001, SYSCO has achieved its quality milestone of international level and has accumulated years of ample experience to execute strict quality control and experiments most effectively and efficiently by its world class senior technical professionals with the most advanced equipment.





此外，本公司之實驗室已取得財團法人全國認證基金會(TAF)認證，為目前台灣的鍍製及烤漆製造廠中，通過TAF實驗室認證項目最多的公司之一，確保使用客戶對本公司各項產品有高度信心與滿意度。

In addition, SYSCO's Laboratory also acquired the accreditation of TAF (Taiwan Accreditation Foundation). Compared with its competitors, SYSCO's Lab is more versatile to have been qualified in more items of test / experiment. The Lab can ensure customers' high confidence and satisfaction with SYSCO's various products.



訂購須知

NOTICES FOR ORDER

■ 鍍55%鋁鋅／鍍鋅鋼板訂購時請註明下列事項：
55% Al-Zn alloy-coated steel／Galvanized：

項次 Item	註明項目 Information	範 例 Example
1	品名（鍍55%鋁鋅／鍍鋅鋼捲） Product type（55% Al-Zn alloy-coated／galvanized steel sheet）	鍍鋅鋼捲 Galvanized
2	格記號（SYSCO/JIS/ASTM或其他規格） Specification designation（SYSCO／JIS/ASTM or Others）	JIS G3302-2012 SGCC
3	規鍍層表面精整（一般／微細鋅花） Surface finish（Regular／Mini spangle）	一般鋅花 Regular Spangle
4	調質 Skinpass	Yes
5	鍍層量 Coating mass	Z18
6	化學處理（鉻酸／抗指紋／鈍化劑） Chemical surface treatment(Chromating／Anti-fingerprint／Passivated)	鉻酸處理 Chromating treatment
7	塗油 Oiled	不塗油 Non Oiled
8	尺寸（厚度×寬度mm） Dimensions（Thickness×Width mm）	0.776mm×914mm
9	質量（實際質量／理論質量／理論最小質量） Mass（AW／TW／TMW）	實際質量 Actual mass
10	單捲限重（最小與最大）（噸） Minimum & Maximum coil weight（metric tonnes）	6.0～8.0
11	鋼捲內徑（508或610mm） Coil internal diameter（mm）	508
12	用途 Application	風管 Duct
13	訂購數量（噸） Order volume（metric tonnes）	200
14	交貨日期 Delivery date	102年6月 June, 2013
15	鋼板背面印製公司標誌 Print mark	Yes
16	包裝方式 Packing requirement	依盛餘公司標準 SYSCO Standard
17	特殊要求 Special requirements, if any	——
18	須符合RoHS規定或其他有害物質相關規定者	——

（註）本公司鍍55%鋁鋅／鍍鋅鋼板具有多樣尺寸與適用於多種用途應用，客戶可依鋼品尺寸、品質與用途之需求向本公司訂購適用之鋼品。
客戶於訂購前或使用本公司鋼品後，如遇有品質上之疑問時，請與本公司技術服務處聯絡洽詢。

Note:SYSCO's products of 55% Al-Zn alloy-coated/galvanized steel are available in a broad size range and applicable for various purposes.
Customers may select the most suitable products based on size, quality and application and may contact SYSCO's Technical Service Dept.,for any further quality service.

■ 烤漆產品訂購時請註明下列事項：

Prepainted steel sheet：

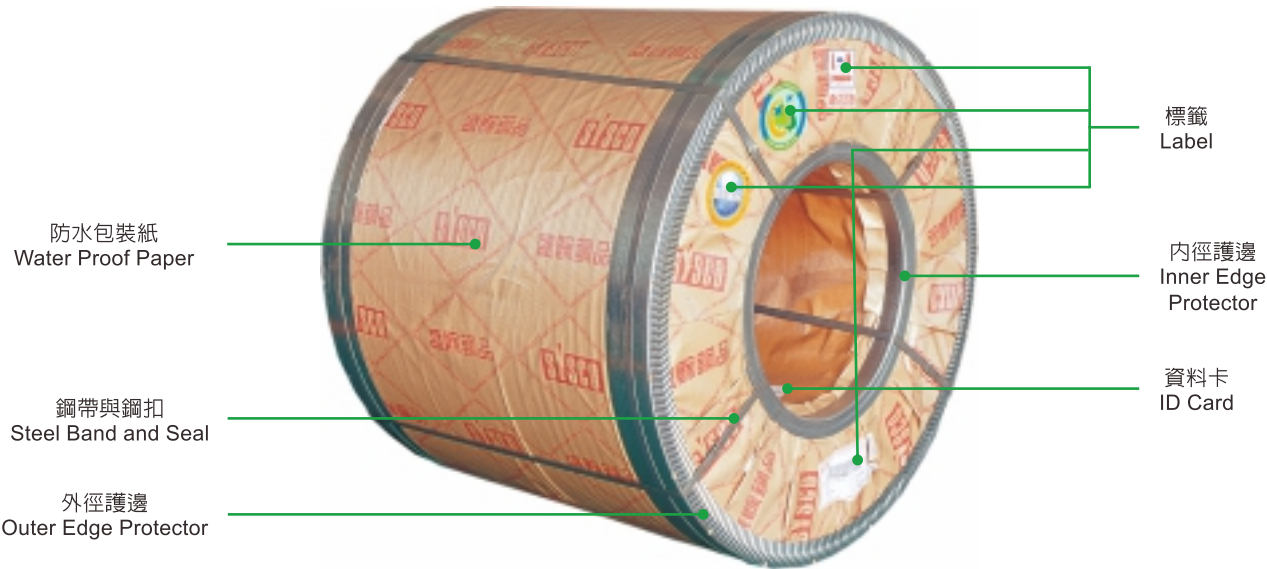
項次 Item	註明項目 Information	範 例 Example
1	品名（烤漆／印刷鋼捲） Product type(Prepainted/Printed)	烤漆鋼板 Prepainted
2	規格記號（SYSCO／JIS,ASTM或其他規格） Specification designation(SYSCO／JIS／ASTM or Others)	SYSCO CGLC
3	保證等級（僅適用於JIS規格） Durability designation	20
4	底材鍍層量 Coating mass designation	AZ150
5	尺寸（厚度×寬度mm） Dimensions（Thickness×Width mm）	0.52mm X 914mm X coils
6	質量（實際質量／理論質量／理論最小質量） Mass（AW／TW／TMW）	實際質量 Actual mass
7	塗料種類（面漆／背面漆） Organic coating type designation（Topcoat／Backcoat）	聚酯樹脂／service Pe／service
8	顏色（面漆／背面漆）※參考本公司顏色代號 Color(Topcoat／Backcoat)	IG386／BW736
9	塗膜厚度（面漆／背面漆） Organic coating thickness	NOM／NOM
10	單捲限重（最小與最大）（噸） Minimum & Maximum Coil Weight (metric tonnes)	3～5
11	單捲限重（最小與最大）（噸） Minimum & Maximum Coil Weight (metric tonnes)	508
12	面漆捲向（內／外） Finish Coating（In／Out）	IN
13	用途 Application	屋頂或牆板 Roofing or siding
14	保護膜 Protective film	No
15	訂購數量（噸） Order volume (metric tonnes)	200
16	交貨期 Delivery date	102年6月 June, 2013
17	鋼板背面印製公司標誌 Print mark	Yes
18	包裝方式 Packing requirement	E1(橫式鐵皮包裝) Horizontal and steel package
19	特殊要求（如機械性質、尺度公差、套筒） Special requirements, if any	_____
20	須符合RoHS規定或其他有害物質相關規定者	_____

（註）客戶可提供顏色樣本供本公司生產時參考。

（Remarks）Please provide sample panels if a special color is required.

包裝與標籤

PACKING AND LABELING



■ 鍍（鋁）鋅鋼捲標籤 Label of GI/GL coil



■ 彩色鍍（鋁）鋅烤漆鋼捲標籤 Label of PPGI/PPGL coil



運輸及儲存

TRANSPORTATION AND STORAGE

為確保本公司各種產品鋼捲的品質水準，故在處理及儲存時須避免損傷。儲存設備必須清潔，接觸面必須平整避免凸出，鋼捲必須保護，以防止表面及側面受損。當平放於地面時，須避免滾動；在鋼捲解開時，須避免磨損，在加工時鋼捲之張力必須注意維持。產品運送時必須保持乾燥，儲存室須具抗候性。在高溫度的情況下，須有足夠的通風及空氣循環以防止水氣凝結。若鋼捲一旦受潮，則必須重捲處理，並立即使用以防止材料變質。

To ensure the quality of our steel coils, special attention must be paid during handling and storage of products to avoid damage. The contact surface of the storage equipment must be clean and smooth without any projection. The steel coils must also be protected to prevent damage to the reverse side. When the coils are placed on the ground, rolling of coils should be avoided. Abrasion must be avoided at the time of uncoiling the steel coils. Besides, be sure to maintain the tension of the coils during processing. The products must be kept dry in the course of transportation and the storerooms should be weather-proof. Under high temperature, there must be sufficient ventilation and air circulation to prevent condensation of vapor. Once the steel coils are affected by humidity, then recoiling must be carried out, and the coils should be put to use immediately to prevent the quality of the coils from deterioration.

■ 處理方式 HANDLING

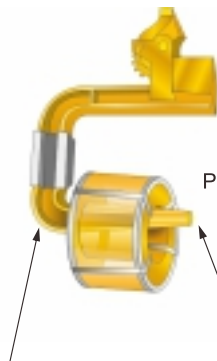
■ C型吊鉤 C HOOK



以支撐桿穿經鋼捲
中心孔吊運方式
Lifting Bar



以鏈索穿經鋼捲
中心孔吊運方式
Sling Through Bore



心軸部份適當長度
Suitable Length
Mandrel Section

防護橡皮墊
Protective Rubber

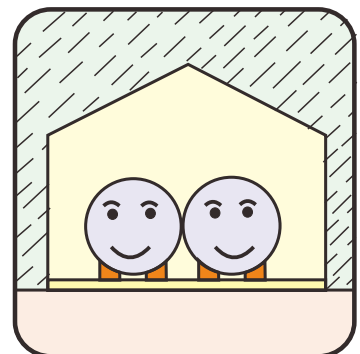
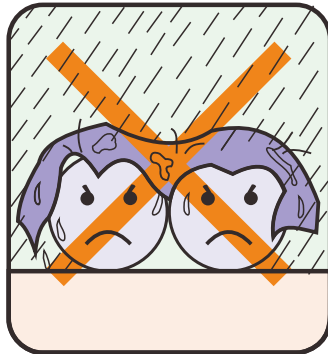
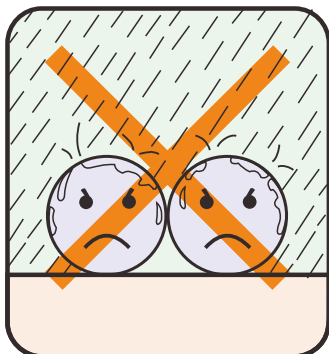
心軸頂端之保護材料
Protective Material
On Point of Mandrel Section



孔內受到損傷
Internal Bore
Damage

心軸部份太短
Material Section
Too Short

■ 儲存方式 STORAGE



技術服務

TECHNICAL SERVICE

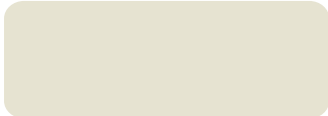
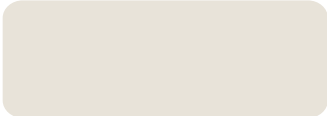
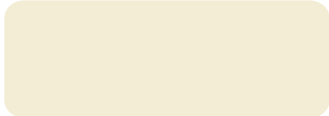
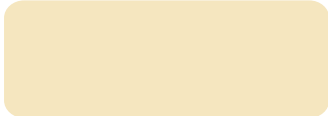
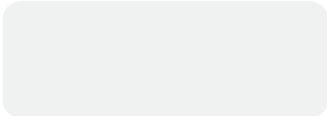
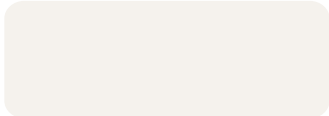
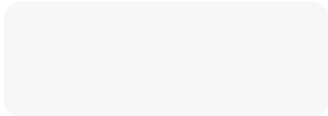
本公司自我期許：「要求品質第一，讓顧客滿意」，秉持「誠信」的企業理念永續經營。公司所設之銷售與專業技術部門，已獲得日本專業鍍面鋼廠淀川鋼鐵公司的全力協助與訓練；而盛餘的技術服務人員可建議客戶使用最適用的產品組合，時時提供客戶實用的產品資訊，並參與規劃作業階段的諮詢服務。加速提昇國內平板系列產業的品質。盛餘的售後服務制度一直被國內外客戶所稱讚及肯定。

SYSCO anticipates itself to excel in product/service quality and customer satisfaction. "Ethical business conduct" is the guideline to manage the enterprise perpetually. Yodogawa Steel Works, Ltd., SYSCO's parent company and Japan's top coated steel maker, has been extending full support and training to assist SYSCO's marketing and technical functions. SYSCO's technical service staffs are able to suggest the most suitable product selection, always provide practical product information and offer consultation service at the planning stage. SYSCO takes it as its responsibility to accelerate uplifting the quality of domestically-produced flat steel products and SYSCO has been affirmed and praised in its after-sale service system by both inland and foreign customers.



標準顏色

STANDARD COLORS

可拉壯 COLORSTRONG PVDF 系列	可拉壯 COLORSTRONG SMP 系列	可拉壯 COLORSTRONG PE 系列
正面漆 Finish coating	正面漆 Finish coating	正面漆 Finish coating
		
FB206黃棕色 (Rawhide)	SB256栗褐色 (Auburn Beige)	1C466象牙白 (Ivory)
		
FW266骨白色 (Bone White)	SC306象牙白 (Ivory)	1C926米黃色 (Cream)
		
FW386樸白色 (Polar White)	SW336樸白色 (Polar White)	1W086雪白色 (Snow White)
		
FG606霧綠 (Misty Green)	SG680霧綠色 (Misty Green)	1G386翠綠色 (Jade)
		
FY326岩灰色 (Slate Grey)	SY356岩灰色 (Slate Grey)	2Y736霧灰色 (Misty Grey)
		
FL576海藍色 (Pacific Blue)	SL656海藍色 (Pacific Blue)	1L246天藍色 (Sky Blue)
		
FR846磚紅色 (Terra Cotta)	SR616磚紅色 (Terra Cotta)	1R426朱紅色 (Vermilion)
		
BW73Y背漆顏色 Service coating	BW73Y背漆顏色 Service coating	BW736背漆顏色 Service coating

(註) 由於印刷的關係，所述標準色可能和實際的顏色稍有差異，故本表色樣僅供參考。
實際顏色必須參考本公司標準樣本，若需其他顏色或光澤，請另行與本公司洽議。

NOTE : Due to color variations in printing dyes, the above color standards may be slightly different from the actual color on SYSCO's Colorstrong and are provided as an indication only. Actual colors are available by reference to SYSCO's color chart. Color and gloss levels other than standard colors may be obtained but are subject to special negotiation.

附 錄

REFERENCE DATA

■面積及質量對照表 TABLES

■鍍55%鋁鋅板 55%Al-Zn ALLOY-COATED STEEL SHEET

(表1)：每單位面積之質量 (CNS標準 BC 鍍製產品)

本表係提供本公司CNS鍍鋁鋅產品，在各種公稱厚度和鍍層厚度下，每平方米之理論質量。

Table 1 Weight of each unit area (For CNS Standard BC coating)

This table provides weight of each square meter of CNS standard 55% Al-Zn alloy-coated steel products at different nominal thickness and coating mass. 單位：kg / m²

	0.27	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.0	1.2
AZ90	2.220	2.455	2.848	3.240	4.025	4.810	5.595	6.380	7.165	7.950	9.520
AZ120	2.250	2.485	2.878	3.270	4.055	4.840	5.625	6.410	7.195	7.980	9.550
AZ150	2.280	2.515	2.908	3.300	4.085	4.870	5.655	6.440	7.225	8.010	9.580
AZ170	2.300	2.535	2.928	3.320	4.105	4.890	5.675	6.460	7.245	8.030	9.600

(表2)：每公噸之面積 (CNS標準 BC 鍍製產品)

本表係提供本公司CNS鍍鋁鋅產品，在各種公稱厚度和鍍層厚度下，每公噸之理論面積。

Table 2 Area of each metric ton (For CNS Standard BC coating)

This table provides area of each metric ton of CNS standard 55% Al-Zn alloy-coated steel products at different nominal thickness and coating mass. 單位：m² / MT

	0.27	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.0	1.2
AZ90	451	407	351	309	248	208	179	157	140	126	105
AZ120	445	402	348	306	247	207	178	156	139	125	105
AZ150	439	398	344	303	245	205	177	155	138	125	104
AZ170	435	394	342	301	244	204	176	155	138	125	104

〈註〉表中所提供之數據僅供本公司之CNS鍍鋁鋅系列產品參考用，實際數據可能稍有些微變化，但均在可允許之製造公差範圍內。

Note : Data provided in these tables are only for reference of CNS standard 55% Al-Zn alloy-coated steel products of SYSCO, while the practical data may vary a little but still fall into the permitted manufacturing nominal range.

■鍍鋅板 GALVANIZED STEEL SHEET

(表3)：每單位面積之質量 (CNS標準 BC 鍍製產品)

本表係提供本公司CNS鍍鋅產品，在各種公稱厚度和鍍層厚度下，每平方米之理論質量。

單位：kg / m²

Table 3 Weight of each unit area (For CNS Standard BC coating)

This table provides weight of each square meter of CNS standard galvanized products at different nominal thickness and coating mass.

	0.27	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.0	1.2
Z12	2.250	2.485	2.878	3.270	4.055	4.840	5.625	6.410	7.195	7.980	9.550
Z18	2.310	2.545	2.938	3.330	4.115	4.900	5.685	6.470	7.255	8.040	9.610
Z22	2.350	2.585	2.978	3.370	4.155	4.940	5.725	6.510	7.295	8.080	9.650
Z27	2.405	2.640	3.033	3.425	4.210	4.995	5.780	6.565	7.350	8.135	9.705

(表4)：每公噸之面積 (CNS標準 BC 鍍製產品)

本表係提供本公司CNS鍍鋅產品，在各種公稱厚度和鍍層厚度下，每公噸之理論面積。

單位：m² / MT

Table 4 Area of each metric ton (For CNS Standard BC coating)

This table provides area of each metric ton of CNS standard galvanized products at different nominal thickness and coating mass.

	0.27	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.0	1.2
Z12	445	402	348	306	247	207	178	156	139	125	105
Z18	433	393	340	300	243	204	176	155	138	124	104
Z22	426	387	336	297	241	202	175	154	137	124	104
Z27	416	379	330	292	238	200	173	152	136	123	103

〈註〉表中所提供之數據僅供本公司之CNS鍍鋅系列產品參考用，實際數據可能稍有些微變化，但均在可允許之製造公差範圍內。

Note : Data provided in these tables are only for reference of CNS standard galvanized products of SYSCO, while the practical data may vary a little but still fall into the permitted manufacturing nominal range.

■ JIS G3321-2012 熱浸鍍55%鋁鋅鋼板 55% Al-Zn alloy-coated steel sheet

單位：g/m²

鍍層代號 Coating mass symbol	(AZ70)	AZ90	AZ120	AZ150	AZ170	(AZ185)	(AZ200)
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	70	90	120	150	170	185	200
雙面單點最小值 Minimum coating mass at single spots-Both sides	60	76	102	130	145	160	170
相當鍍層厚度(mm) Equivalent coating thickness	0.026	0.033	0.043	0.054	0.062	0.067	0.072

註：()內之鍍層量需由買賣雙方同意

■ ASTM A792M-2010(公制) 熱浸鍍55%鋁鋅鋼板55% Al-Zn alloy-coated steel sheet

單位：g/m²

鍍層代號 Coating mass symbol	AZM100	AZM110	AZM120	AZM150	AZM165	AZM180	AZM210
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	100	110	120	150	165	180	210
雙面單點最小值 Minimum coating mass at single spots-Both sides	85	95	105	130	150	155	180

■ CNS 15237 G3271-2013 熱浸鍍55%鋁鋅鋼板 55% Al-Zn alloy-coated steel sheet

單位：g/m²

鍍層代號 Coating mass symbol	(AZ50)	(AZ70)	AZ90	AZ100	AZ120	AZ150	AZ170	(AZ185)	(AZ200)	(AZ250)	(AZ300)
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	50	70	90	100	120	150	170	185	200	250	300
雙面單點最小值 Minimum coating mass at single spots-Both sides	43	60	76	85	102	130	145	160	170	213	255
相當鍍層厚度(mm) Equivalent coating thickness	0.016	0.022	0.027	0.030	0.035	0.043	0.049	0.053	0.057	0.070	0.084

■ JIS G3302-2012 熱浸鍍鋅鋼板 Galvanized steel sheet

單位：g/m²

鍍層代號 Coating mass symbol	(Z06)	Z08	Z10	Z12	Z14	Z18	Z20	Z22	Z25	Z27	Z35	Z37	Z45	Z60
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	60	80	100	120	140	180	200	220	250	275	350	370	450	600
雙面單點最小值 Minimum coating mass at single spots-Both sides	51	68	85	102	119	153	170	187	213	234	298	315	383	510
相當鍍層厚度(mm) Equivalent coating thickness	0.013	0.017	0.021	0.026	0.029	0.034	0.040	0.043	0.049	0.054	0.064	0.067	0.080	0.102

註：()內之鍍層量需由買賣雙方同意

■ ASTM A653M-2011(公制) 熱浸鍍鋅鋼板 Galvanized steel sheet

單位：g/m²

鍍層代號 Coating mass symbol	Z001	Z90	Z120	Z180	Z275	Z305	Z350	Z450	Z500	Z550	Z600
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	no minimum	90	120	180	275	305	350	450	500	550	600
單面單點最小值 Minimum coating mass at single spots-One sides		30	36	60	94	110	120	154	170	190	204
雙面單點最小值 Minimum coating mass at a single spot-Both sides		75	90	150	235	275	300	385	425	475	510

■ CNS 1244 G3027-2013 熱浸鍍鋅鋼板 Galvanized steel sheet

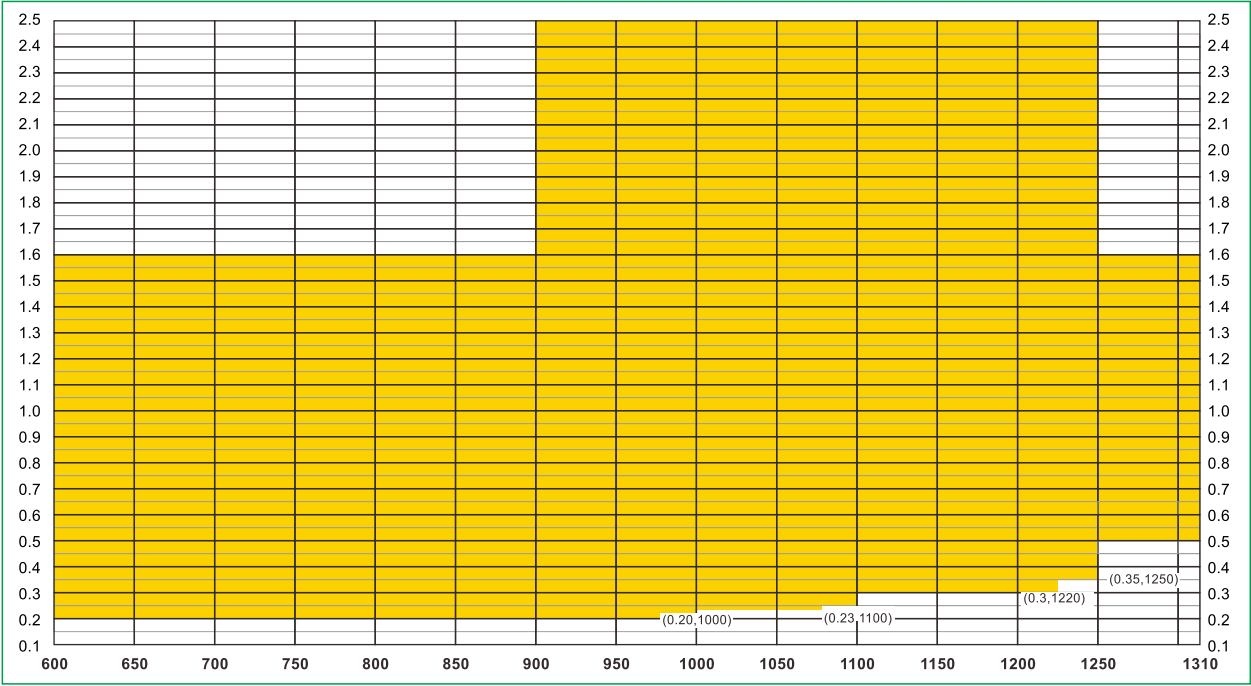
單位：oz/ft²

鍍層代號 Coating mass symbol	(Z06)	Z08	Z09	Z10	Z12	Z14	Z18	Z20	Z22	Z25	Z27	Z30	Z35	Z37	Z45	Z50	Z55	Z60
雙面三點平均最小值 Minimum average coating mass at triple spots-Both sides	60	80	90	100	120	140	180	200	220	250	275	305	350	370	450	500	550	600
雙面單點最小值 Minimum coating mass at single spots-Both sides	51	68	77	85	102	119	153	170	187	213	234	259	298	315	383	425	468	510
相當鍍層厚度(mm) Equivalent coating thickness	0.010	0.013	0.014	0.015	0.018	0.021	0.027	0.029	0.032	0.036	0.040	0.043	0.050	0.053	0.064	0.071	0.078	0.085

■ 可生産尺寸 Produce size

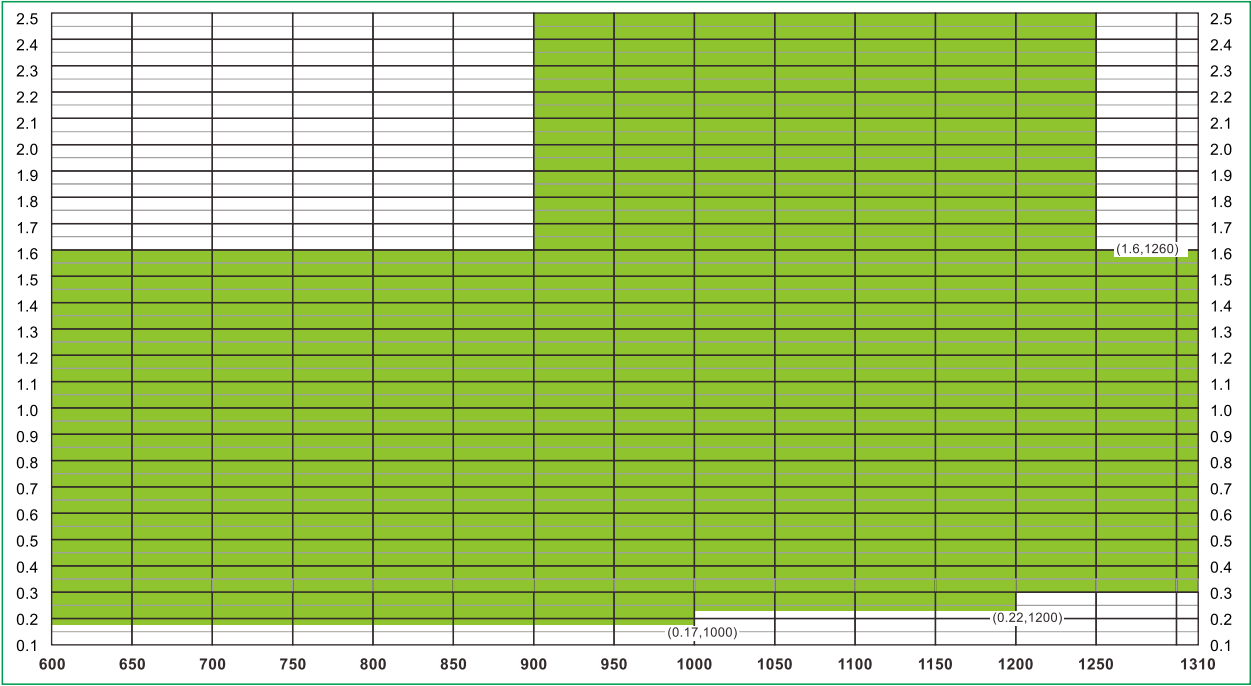
GI SIZE AVAILABILITY
(BASE METAL THICKNESS)

単位 : mm



GL SIZE AVAILABILITY
(BASE METAL THICKNESS)

単位 : mm



PPGI SIZE AVAILABILITY
(BASE METAL THICKNESS)

單位 : mm

