科技工藝 持續精進



上鎧鋼鐵
SHANG KAI STEEL

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SHANG KAI STEEL

機械科技打造精湛工藝

"Building Craftsmanship Through Mechanical Technology."

自 1988 年，上鎧鋼鐵致力於提供卓越的金屬擴張網。我們符合國際標準化組織 ISO 9001：2015 品質管理系統標準，因為每一個環節都達到自我的嚴格標準。

如今，上鎧鋼鐵加倍重視服務與數據，為了提高整體競爭力，從 2017 年全面更新工廠自動化機器設備與工廠電腦化管理，自工業 2.0 邁向工業 4.0，與歐美技術並駕齊驅。透過跨國／跨界思維，積極開發高附加價值與高端差異性產品，不斷嘗試創新與研發，致力於帶給客戶絕佳體驗。

在每次密切的合作關係裡，我們的技術總能不斷突破，與之創新。現在，您可以發現上鎧鋼鐵的產品為全球信任，「信任」一直是上鎧鋼鐵的最重要的品牌價值。我們擁有豐富的經驗及完善的生產設備，致力於提供客戶高品質、高價值之產品，以高標準滿足客戶之需求！

Since 1988, Shang Kai Steel has been dedicated to providing superior Expanded Metal meshes. We conform to the ISO 9001:2015 Quality Management System standards set by the International Organization for Standardization because every stage of our production meets our own strict standards.

Nowadays, Shang Kai Steel places a greater emphasis on service and data in order to improve overall competitiveness. In 2017, we fully updated our factory's automation equipment and computerized management, moving from Industry 2.0 to Industry 4.0. Through cross-national and cross-industry thinking, we actively develop high-value-added and high-end differentiated products, constantly trying to innovate and research, committed to providing customers with an excellent experience.

In every cooperation relationship, our technology always continues to break through and innovate. Now, you can find Shang Kai Steel's products to be globally trusted. "Trust" has always been the most important brand value for us. At Shang Kai Steel, we use state-of-the-art machinery and technology to create products of exceptional craftsmanship. Our advanced equipment and skilled technicians allow us to consistently deliver high-quality products that meet the high standard of our customers!



公司簡介
Company Profile

上鎧鋼鐵股份有限公司是由**董事長林宗志先生**創立，專門從事金屬擴張網製造。公司經營理念是「誠信、品質」。我們擁有多種設備和技術，可製造板厚範圍從 0.05mm-8.0mm，不限於任何金屬材質。我們可生產各國標準擴張網，並持有 ISO 9001 品質管理系統，並有特訂品質保證制度。在台灣高端產品市場中占有率超過八成，並銷售至世界各地。

Shang Kai Steel Co., Ltd. was founded by Chairman Chung-Chih Lin and specializes in the manufacturing of expanded metal mesh. The company's business philosophy is "integrity and quality". We have a variety of equipment and technology, and can produce sheets with thicknesses ranging from 0.05mm-8.0mm, not limited to any metal material. We can produce various national standard expanded metal meshes and have an ISO 9001 quality management system and a special quality assurance system. We have a market share of more than 80% in Taiwan's high-end product market and sell our expanded metal mesh products to customers worldwide.

上鎧鋼鐵在 1998 年開始轉型，從 OEM 和 ODM 代工轉為 OBM，以滿足客戶日益變化的需求。近年來，公司重視服務和數據分析，積極推動工廠自動化和電腦化管理，從工業 2.0 轉型為工業 4.0，開發出具有高附加價值和高端差異性的產品。我們致力為客戶提供優質的產品與服務，幫助客戶在國際市場上取得佳績。

In 1998, Shang Kai Steel began its transformation journey, shifting from OEM and ODM contract manufacturing to OBM, to better meet the changing needs of its customers. In recent years, the company has placed a strong emphasis on service and data analysis, actively promoting factory automation and computerized management, and transitioning from Industry 2.0 to Industry 4.0. The company has developed products with high added value and high-end differentiation. We are dedicated to providing our customers with high-quality products and services, helping them achieve success in the international market.

經過三十多年的發展，上鎧鋼鐵的目標是「站穩台灣，深耕亞洲，放眼全球！成為高端客戶唯一指定的金屬擴張網供應商」。作為台灣產業用金屬擴張網的領導廠商，上鎧展現出卓越的技術水準，在金屬網產業鏈中扮演著重要的角色。我們將繼續追求「共好、共創、永續」，朝向更高水準的企業發展目標邁進。

After more than 30 years, Shang Kai Steel has established itself as a leading supplier of metal mesh in Taiwan, Asia and the world. The company aims to be the "Top choice for high-end customers as a supplier of Expanded metal mesh". As a leader in Taiwan's metal mesh industry, Shang Kai Steel has demonstrated its expertise and commitment to excellence. The company will continue to pursue its goal of "mutual benefit, co-creation and sustainability" and strive for even greater success in the future.



LRQA

Current issue date: 28 November 2022
Expiry date: 28 November 2025
Certificate identity number: 10464760

Original approval(s): ISO 9001 - 28 November 2022

Certificate of Approval

This is to certify that the Management System of:

SHANG KAI STEEL CO., LTD.

No. 16 Juguang 2nd St. Daliao Dist., Kaohsiung City 831136, Taiwan

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 00038541

The scope of this approval is applicable to:

Manufacturing and sale of expanded metal and metal lath.

Luis Cunha

Area Operations Manager - North Asia & SAMEA

Issued by: LRQA Limited

IAF SKAS

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Issued by: LRQA Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Page 1 of 1



Certificate

Standard: **ISO 14064-1:2018**

Certificate Registr. No: **CF 50943434 0001**

Report No: **38540393 001**

Certificate Holder: **Shang Kai Co., Ltd.**
No.16, Chu-Kuang 2nd Street, Ta-Fa Industrial District, Ta-Liao Dist., Kaohsiung City, Taiwan (R.O.C.)

Site: **Shang Kai Co., Ltd. Headquarters**
No.16, Chu-Kuang 2nd Street, Ta-Fa Industrial District, Ta-Liao Dist., Kaohsiung City, Taiwan (R.O.C.)

Scope:
Verification and Validation Body: TÜV Rheinland Taiwan Ltd.
- Process: Document review, interview, site visit and recalculation
Based on the information we have received and evaluated that:
- Programme: Voluntary
- Review Criteria: ISO 14064-3:2006
- Organizational Boundary: Operational Control
- Level of Assurance: Reasonable
- Materiality: 5%
- Global warming potential (GWP): IPCC 2013
- Base year: 2021 (2021.01.01~2021.12.31)
- Inventory year: 2021 (2021.01.01~2021.12.31)
- The total carbon emission is 447.399 tons of carbon dioxide equivalent (tCO_2e)
  - Direct emission is 65.3248 tCO_2e
  - Indirect emission is 381.9673 tCO_2e
- 2021 electricity emissions factor not publish, the inventory use 2020 electricity emissions factor for GHGs calculation

Validity: This certificate only reviewed the emissions data of inventory year, this certificate is not for the management systems certification.

2022-05-24

TÜV Rheinland Taiwan Ltd.

www.tuv.com

IAF TAF

TÜVRheinland®
Precisely Right.



LCBA Low Carbon Construction

LCBA低碳工法標章證書

Low Carbon Footprint Building Construction Certificate of Accreditation

證書編號Certificate No: LCBA-LCC-015

申請廠商｜上鎧鋼鐵股份有限公司
工法名稱｜金屬擴張網外遮陽系統系列
申請人｜林宗志

碳減量效益之減碳比率	SKA 20-33：5.4% SKA 30-59：6.0% SKA 20-28：5.2% SKA 20-55：8.8% SKA 20-143金屬擴張網：6.1% SKA 20-59：6.9% SKA 15-06：5.3%

The following construction(s) was/were submitted and identified on behalf of the client as:

Shang Kai Steel Co., Ltd

Construction Name	Expanded metal SK-Architecture Type
Carbon Reduction	SKA 20-33：5.4% SKA 30-59：6.0% SKA 20-28：5.2% SKA 20-55：8.8% SKA 20-143：6.1% SKA 20-59：6.9% SKA 15-06：5.3%

低碳建築聯盟
Low Carbon Building Alliance
蔡福賢
Certified on 2022.05.27

LCBA



台灣精品獎
Taiwan Excellence Award 2023

特頒予
Presented to

上鎧鋼鐵股份有限公司
SHANG KAI STEEL CO., LTD.

具高耐風性能之建築用遮陽節能金屬擴張網
Sunshade Energy-Saving Expanded Metal Mesh for Building with High Wind Resistance
SKA Series

王美花

經濟部 部長
Minister, Ministry of Economic Affairs, R.O.C.
中華民國111年11月23日
23rd of November 2022



經濟部

潛力中堅企業
證書

上鎧鋼鐵股份有限公司
持續專注本業，在特定領域表現傑出，具有發展為卓越中堅企業之潛力，經評選後，榮獲第5屆潛力中堅企業，特頒此證，以茲證明。

部長 沈榮津

中華民國 108 年 10 月

Certificate of Potential Taiwan Mittelstand Award

This certificate of the 5th Potential Taiwan Mittelstand Award is presented to SHANG KAI STEEL Co., Ltd. in recognition of its outstanding performance in a specific field and for its strong potential to become a Taiwan Mittelstand Award winner.

Jong-Chin Shen
Minister of Economic Affairs, R.O.C.
October 2019



NATIONAL AWARD OF OUTSTANDING SMALL AND MEDIUM ENTERPRISES

國家磐石獎證書

上鎧鋼鐵股份有限公司

參加第26屆國家磐石獎－卓越中小企業選拔，經評審委員會評審結果，榮獲國家磐石獎，特頒此證。

經濟部部長 沈榮津

中華民國全國中小企業總會理事長

THIS IS TO CERTIFY THAT

SHANG KAI STEEL CO., LTD.

IS THE WINNER OF THE
26th NATIONAL AWARD OF OUTSTANDING
SMALL AND MEDIUM ENTERPRISES

Jong-Chin Shen
MINISTER
MINISTRY OF
ECONOMIC AFFAIRS, R.O.C.

CHAIRMAN
NATIONAL ASSOCIATION
OF SMALL & MEDIUM
ENTERPRISES, R.O.C.

中華民國 106 年 10 月 31 日





目　　錄

CONTENTS

上鎧鋼鐵 Shang Kai Steel

01 金屬擴張網 Expanded Metal

06 一般型擴張網 General Type

12 XG 型號 XG Type

22 XS 型號 XS Type

28 XF 型號 XF Type

32 SK 型號 SK Type

48 防火型網 Fire-Protection Type

56 過濾網 Filter Mesh

64 超薄細網 Ultra Fine Mesh

68 留邊型網 Wing Type

建築輔助建材 Architectural Product

72 金屬有筋網 Ribbed Lath

78 金屬免拆模板 High Ribbed Formwork

建築外觀網 Architectural Expanded Mesh

86 建築外觀網 SK-A Type

114 漸變型擴張網 SKA-V Expanded Mesh

128 天花板網 Ceiling Mesh

134 異型擴張網 SKC Expanded Mesh

138 SKA-U 變異重疊型擴張網 SKA-U Expanded Mesh

141 微孔網 Micro Mesh

擴張網標準規範規範
Standard Specification for Expanded Metal

145 擴張網標準規範規範 Standard Specification for Expanded Metal

148 美國產品規範 U.S. Product Specifications

150 ASTM 標準規範 Manufaturing Tolerances

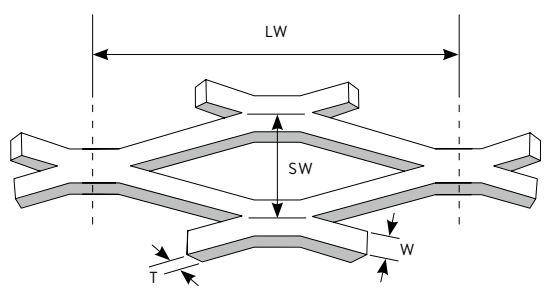


金屬擴張網

Expanded Metal

金屬擴張網是將金屬板材經由橫切和拉伸擴展，所形成規則相同的菱形網狀結構，使其具有較高的抗拉強度。由於可生產不同的金屬材質及材料耐候性高、表面處理多樣化、成品網面平整、孔徑均勻等特點，上鎧鋼鐵的擴張網能夠在各個產業中更被廣泛地使用。而現在我們對擴張網有了全新的定義，即『穩固安全』、『過濾通透』、『綠化節能』和『變化彈性』。和以往所不同的是，我們對於原料、製作環節和細節上的執著與追求，上鎧鋼鐵所生產的擴張網具有豐富的立體視覺效果，可以塑造出穿透性的美感，提升各產業產品的質感和價值，使金屬擴張網成為越來越多產業的選擇。

Expanded metal is a type of metal mesh that is made by cutting and stretching metal plates to form a regular pattern of holes. Its diamond-shaped structure gives it high tensile strength. Because of the weather resistance of different metal materials, the surface treatment is diverse, the net surface is smooth, the aperture is uniform and other characteristics, the Shang Kai Steel expanded metal can be more widely used in various industries. Nowadays, we have a new understanding of expanded metal, that is "stable and safe," "filter and transparent," "green and energy-saving," and "changeable and elastic." Different from the past, We are persistent in the material, production process, and details, and the Shang Kai Steel expanded metal has a rich three-dimensional visual effect, can shape the permeable beauty, enhance the quality of various industrial products, and make the expanded metal a more and more popular choice in various industries.



本公司亦可製造上述標準以外的產品，如有需要，請與我們聯繫。
Our company is also capable of manufacturing products beyond the mentioned specifications. If needed, please feel free to contact us.







擴張網介紹

- SW: 菱形短邊尺寸中心之間的距離。
- LW: 菱形長邊尺寸中心之間的距離。
- LWM: 寬度 (對應菱形長邊方向)。
- SWM: 長度 (對應菱形短邊方向)。
- 厚度 : 原料厚度。
- 總高度 : 網格總高度通常是材料厚度測量值的 1-2.5 倍。
- 網條 : 是菱形邊長之寬度。
- 所有厚度、網條重量均存在 +/-10% 的公差。
- 標準尺寸 : 915 x 1830 (LWM x SWM)、
  1220 x 2440(LWM x SWM)、
  1525 x 3050 (LWMXSWM)。

材料

鋼鐵、不銹鋼、鋁、鍍鋅鋼板、電氣鍍鋅鋼板、銅、鈦、鎳、銀、金。

表面處理

熱浸鍍鋅、粉體塗裝、陽極處理、氟碳烤漆。

Expanded Metal Technical Specifications

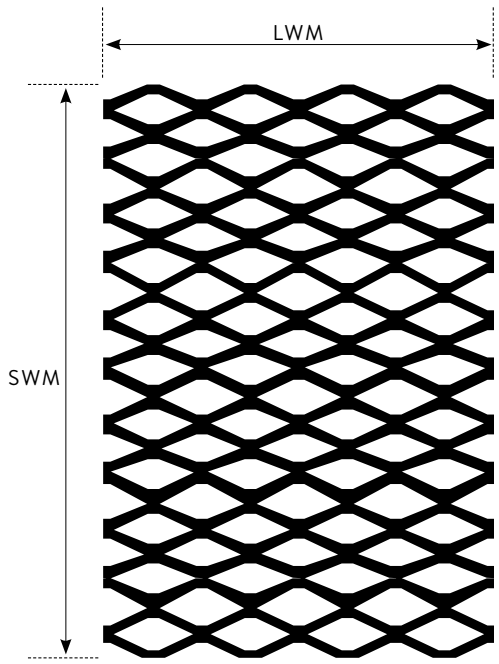
- SW: Short way Dimension of mesh.
  (Distance between centers in direction of short mesh)
- LW: Long way Dimension of mesh.
  (Distance between centers in direction of long mesh)
- LWM: Length (Long Way direction of the diamond)
- SWM: Width (Short direction of the diamond)
- Thickness: Material Thickness.
- Overall Thickness: The Overall Thickness can be as much as 1-2.5x the measurement of material thickens.
- Strand/Width: The width of diamond shape on each slice.
- All thickness, strand width and weight are subject to +/-10% tolerance.
- Standard sheet is 915 x 1830 (LWM x SWM)、
  1220 x 2440 (LWM x SWM)、
  1525 x 3050 (LWMXSWM).

Material

Mild steel、Stainless steel、Aluminium、Pre-galvanized steel、Electrical Galvanized Steel、Copper、Titanium、Nickel、Silver、Gold

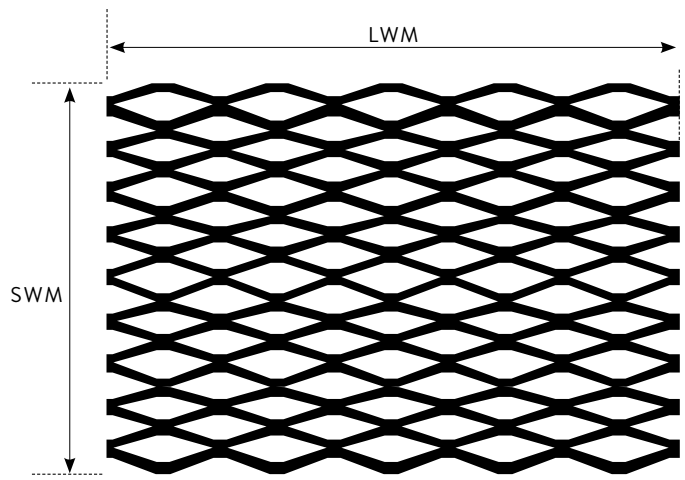
Surface treatment

Hot-dip Galvanizing、Powder coating、Anodizing treatment、Fluorocarbon coating



X 型式 /X Type

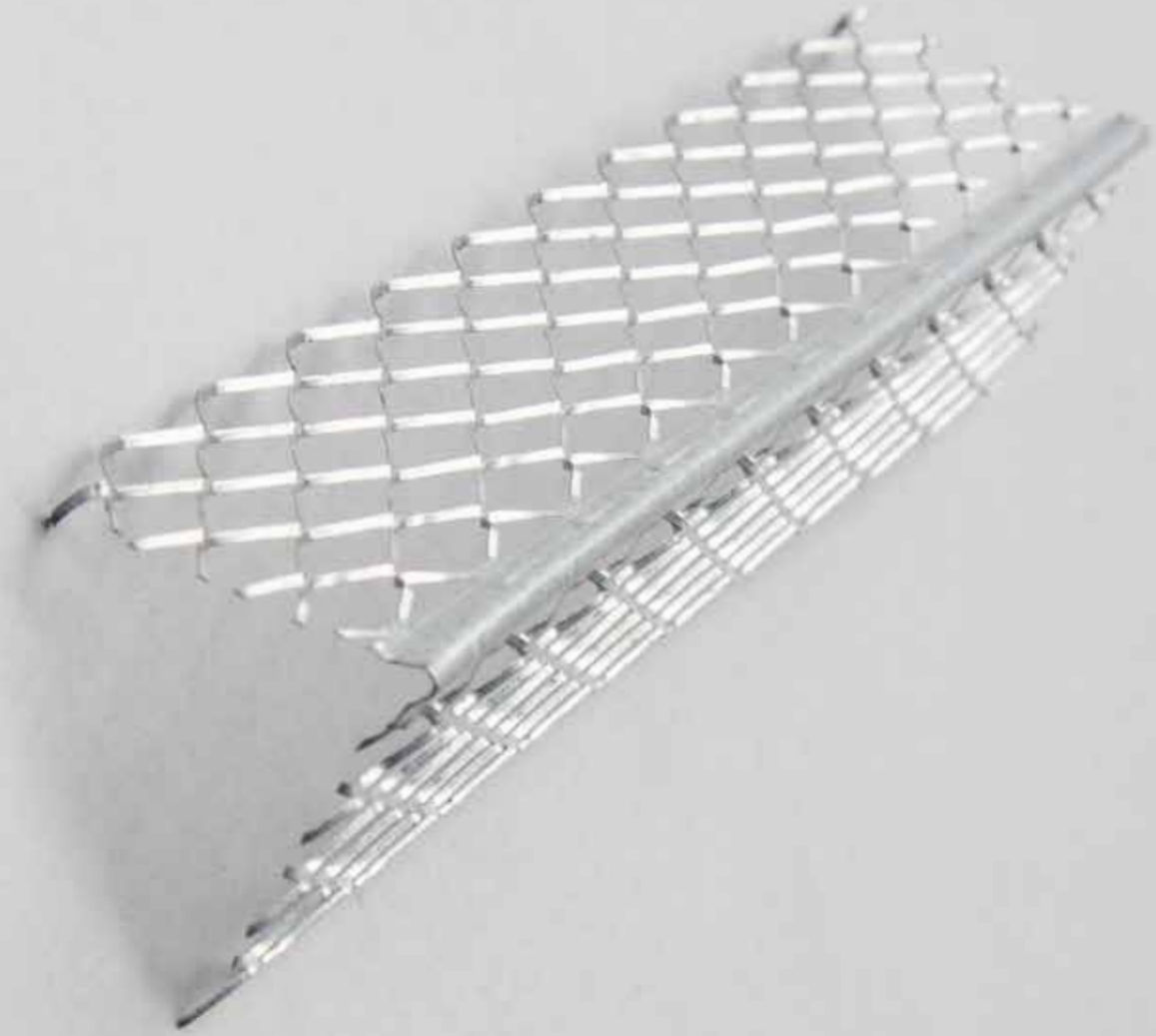
標準尺寸 Standard sheet
915 x 1830 (LWM x SWM)
1220 x 2440 (LWM x SWM)
1525 x 3050 (LWMXSWM)



Y 型式 /Y Type

標準尺寸 Standard sheet
2440 x 1220 (LWM x SWM)
3050 x 1525 (LWM x SWM)

SKAB



鋼質灰泥角條
Steel Plaster Angle Bead

鋼質灰泥角條可替代木尺作用，適用於各種環境狀況下，形成筆直的稜角以及完美包覆灰泥。在持久耐用之餘，可輔助塗抹的灰泥達到規定的厚度，避免破碎與龜裂，非常堅固。角條兩側的擴張網，讓使用上得以更舒適扎實；且有助於角條固定於灰泥中，可以強化灰泥、特別脆弱且較易受損的牆角與樑柱。

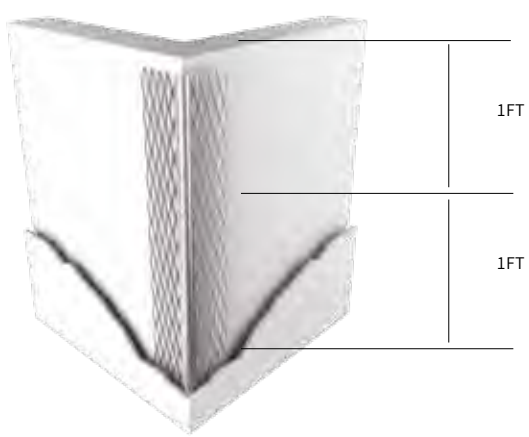
Shang Kai Steel's Steel Plaster Angle Bead is similar to an Angle Bead but with expanded metal on each side of the 90 degree bend. Expanded metal provides a straight and rigid surface for coating materials to adhere to. The bond between plaster and the expanded metal can guard an object against cracks and damage. This is a durable and efficient solution for enhancing corners and pillars.

製品規格表 Product Specifications

產品編號 Product Ref.	材料 Material	長度 Length	數量 Qty/Box (pcs)
SKAB50	鍍鋅鋼材 Galvanized steel	2500/2700	50
SKAB25	鍍鋅鋼材 Galvanized steel	2500/2700	50
SKAB50S	不鏽鋼材 Stainless steel	2500/2700	50
SKAB25S	不鏽鋼材 Stainless steel	2500/2700	50

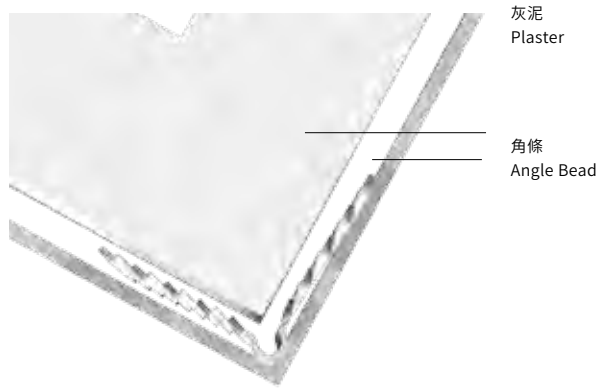
尺寸單位 – 公釐
Units in mm
材料為鍍鋅鋼板。
Made by Pre- galvanized sheet material.
本公司另可製造上述標準以外之產品，請聯絡我們。
We can also manufacture products other than the above specifications, please contact us for details.

(圖1) Fig. 1



角條
Angle Bead

(圖2) Fig. 2



灰泥混凝土柱式牆外彎角
Outside corner for plaster concreted coumns or wall

SKSB



鋼質收邊擋止條

Steel Stop Bead

鋼質灰泥收邊擋止條使用熱浸鍍鋅捲或不鏽鋼捲原料製造而成，持久耐用之餘亦非常穩固。兩項特殊設計有助於改善因連接處而產生的結構性移動或因熱脹冷縮而產生的灰泥龜裂。首先，牢固筆直的 L 型邊槽可順著砌出漂亮的牆面與牆角，有保護作用並防止裂紋產生，能改善細部塗抹之困難。另外一邊是擴張網連接成一條筆直稜角的線型，有助於在膨脹的接縫及邊緣之灰泥塗抹施工時，更貼合牆面並防止灰泥漿滴落。此外，擋止條亦可替代木框蓋或鑄模等木質模板的功能，用於門框處，即能確保房門順利開關，以減少工時，經濟實惠又美觀。

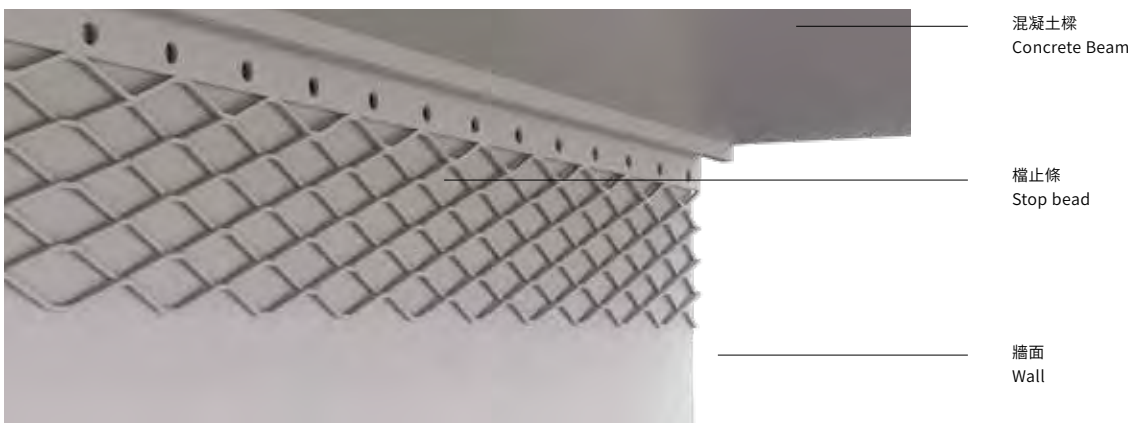
Steel Stop Bead is made from galvanized or stainless steel. It consists of half expanded metal and half unexpanded metal,formed into a L-shaped lip. This design makes it ideal for use in doorways and corners where the wall meets the ceiling. The rigidity of Steel Stop Bead allows for smooth application of plaster. It also relieves plaster from thermal expansion thus preventing cracks. Steel Stop Bead eliminates the need for wooden frames and molds in the construction of doorways. It can be mounted directly as reinforcement for concrete.

製品規格表 Product Specifications

產品編號 Product Ref.	材料 Material	長度 Length	數量 Qty/Box (pcs)
SKSB13	鍍鋅鋼材 Galvanized steel	2500/2700	50
SKSB19	鍍鋅鋼材 Galvanized steel	2500/2700	50

尺寸單位 – 公釐
Units in mm
材料為鍍鋅鋼板。
Made by Pre- galvanized sheet material.
本公司另可製造上述標準以外之產品，請聯絡我們。
We can also manufacture products other than the above specifications, please contact us for details.

(圖3) Fig.3



灰泥收邊檔止條
Plaster Stop Bead

鋼質楣樑
Steel Lintels

鋼製楣樑主要用以取代傳統混凝土所鑄成的結構，針對不同客戶所需類型及安全負載力而創造出不同規格尺寸的產品，並符合 BS/ EN 10142、AST M-A525、JISG3302 的國際標準規定。因表面處理使用的 Z275 鍍鋅表層具高品質防腐功能，不但不受時間影響，比起傳統方式，抗震能力更佳。不需起重裝備即可安裝，且減少混凝土的鍛造時間，使築牆施工更快速方便。此一功能性十足且極具特質的楣樑塑造了安全工程的卓越精準與便利。

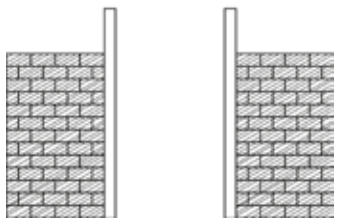
Shang Kai Steel offers different sizes of Steel Lintels that comply with international industrial standards (BS/ EN 10142, AST M-A525, and JISG3302) to meet specific load-bearing requirements. The Steel Lintels undergo Z275 galvanizing which strengthens them and makes them resistant to corrosion. The Steel Lintels are designed to be shockproof and to outperform wooden lintels in efficiency and cost. Steel Lintels can be installed without using heavy machinery and can shorten the construction period.

浪型楣樑 Internal Lintel SKL 100/70

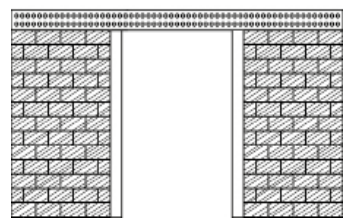
產品編號 Product Ref.	長度 Length	最大開啟跨度 Max. Span of opening	寬度 Width	安全平均負荷 （公噸） Safe distributed loading Tonnes	厚度 Thickness ± 10%	重量 Weight Kg/M ± 10%
SKL 100	900	700	70/100	0.20-0.70mT	1.2T	1.83/M
SKL70	1050	850	70/100		1.2T	1.27/M
	1100	900	70/100			
	1200	1000	70/100			

建議您在砌上一層磚後，過一天再繼續砌以減低傾斜斜度。
Highly recommend to lay first course of bricks and set for a day before laying subsequent brick to minimize deflection.
符合ASTM ASTM C1623標準規範
Our SKL products conform to ASTM C1623

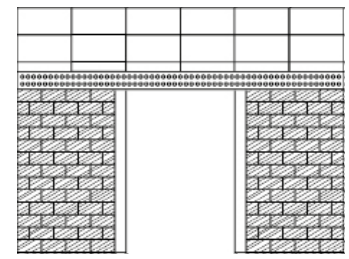
安裝方式 Installation



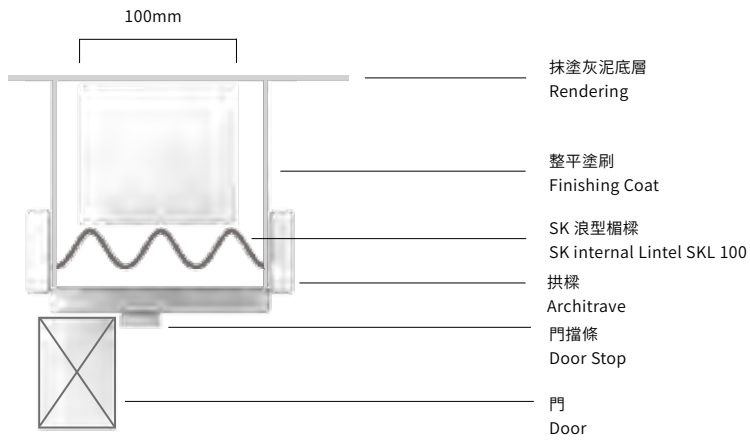
測定水平位置達成
Take level position is obtained

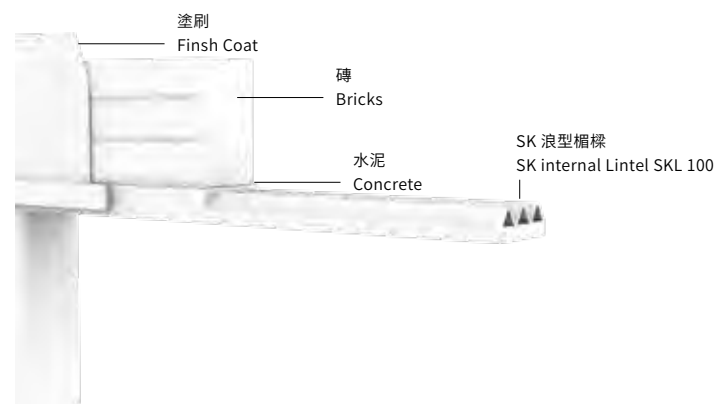


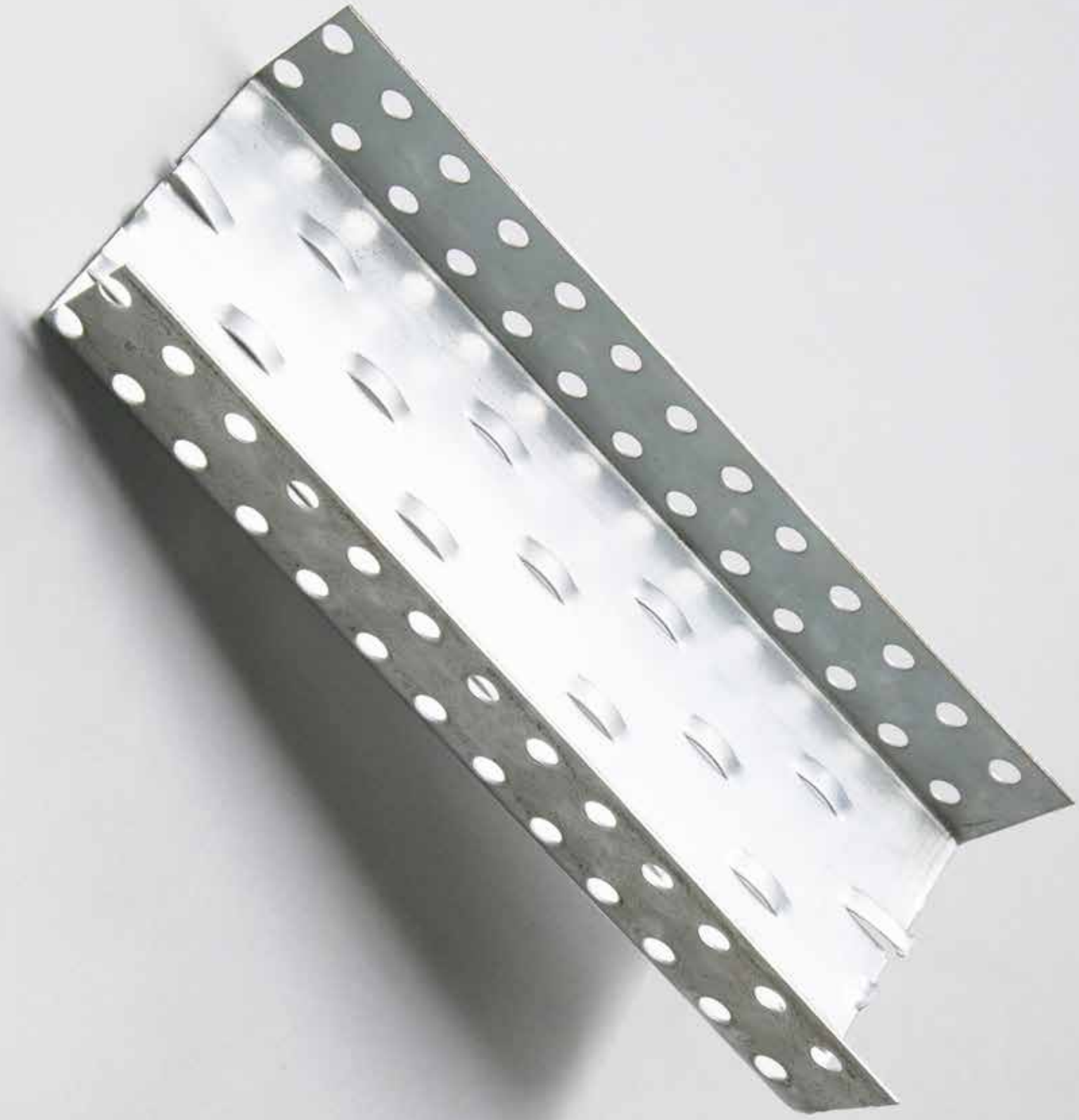
將楣樑放到位置上
Lintel is installed in to position



立即能繼續砌磚工作
Continuation of blockwork can be carried out immediately







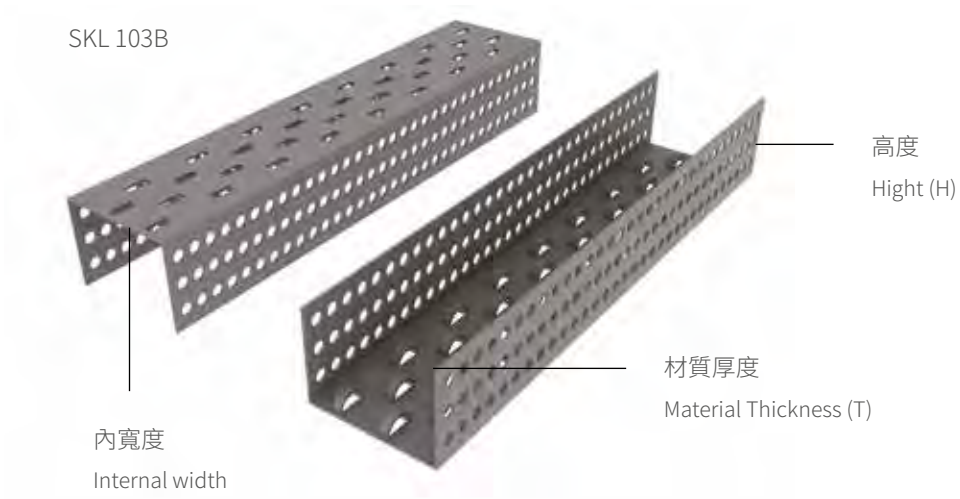
SKL103

U型槽楣樑 1

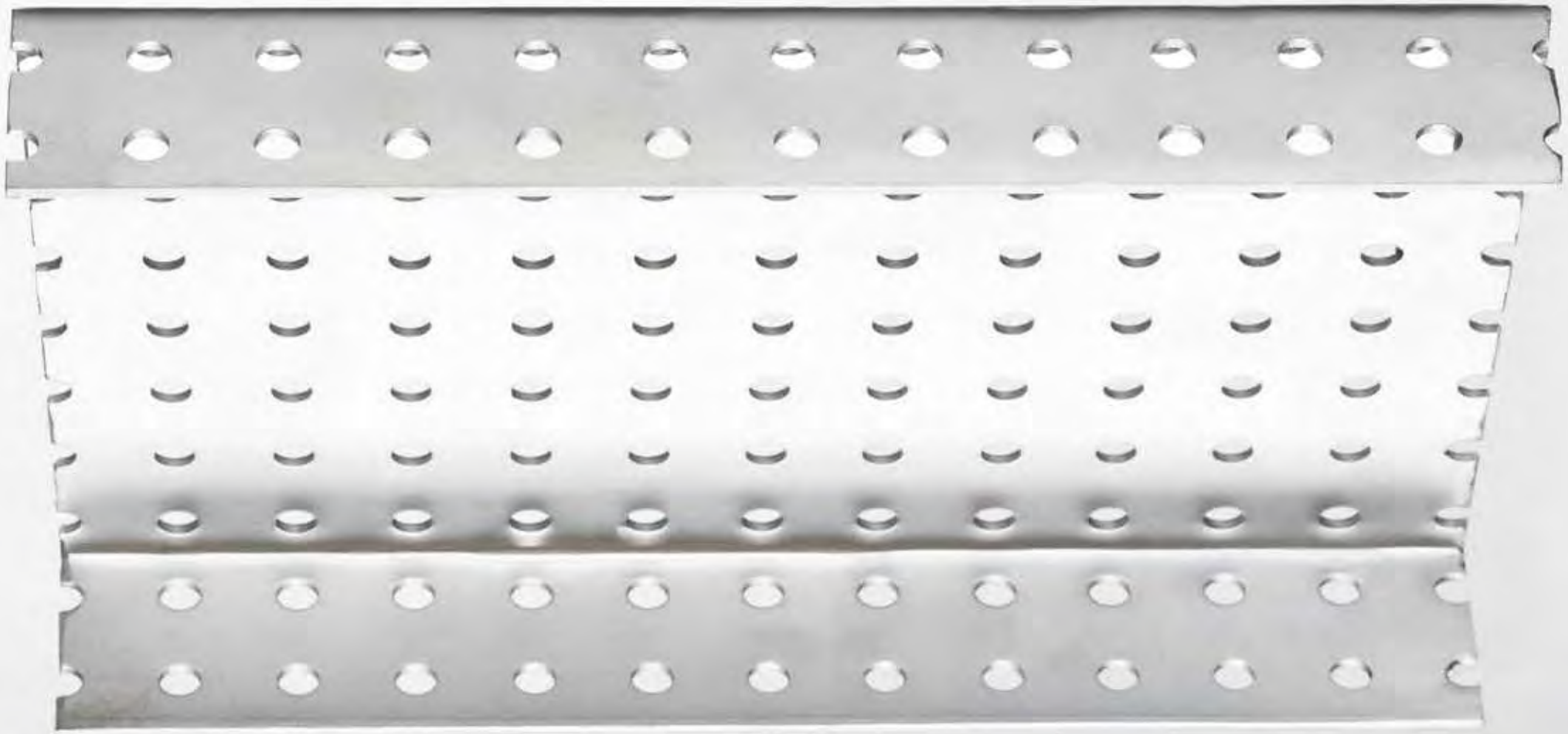
U-Channel Lintel 1

製品規格表 Product Specifications

楣樑編號 Product Ref.	產品長度 Lengths	高度 Height	材料厚度 Thickness	內側寬度 Internal Width	重量 Weight (kg/m) ± 10%
SKL 103	800	50	1.6	103	2.65
	1300	50	1.6	103	2.65
SKL 103A	800	75	1.6	103	3.18
	1300	75	1.6	103	3.18
SKL 103B	800	75	2.0	103	3.97
	1300	75	2.0	103	3.97
	1600	75	2.0	103	3.97
SKL 103C	800	75	2.6	103	5.20
	1300	75	2.6	103	5.20
	1600	75	2.6	103	5.20
	1900	75	2.6	103	5.20
SKL 103D	1300	100	2.6	103	6.18
	1600	100	2.6	103	6.18
	1900	100	2.6	103	6.18



尺寸單位 – 公釐 Units in mm
容許力距，降伏應力為250N/mm2
Allowable torque, yield stress 250N/mm2



SKL203

U型槽楣樑 2

U-Channel Lintel 2

製品規格表 Product Specifications

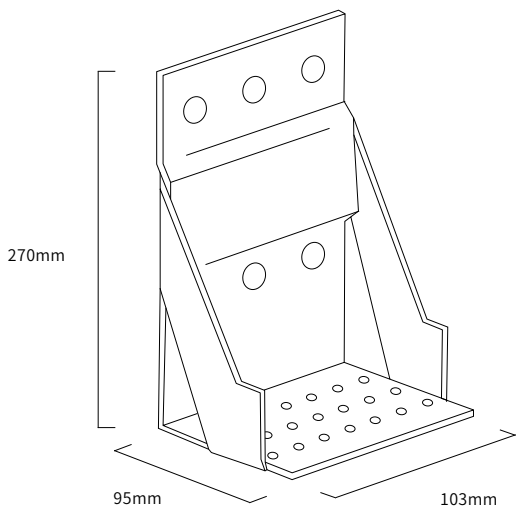
楣樑編號 Product Ref.	產品長度 Lengths	高度 Height	材料厚度 Thickness	內側寬度 Internal Width	重量 Weight (kg/m) ± 10%
SKL 153A	800	50	2.0	153	3.8
	1300	50	2.0	153	3.8
SKL 153B	800	50	2.5	153	4.85
	1300	50	2.5	153	4.85
	1600	50	2.5	153	4.85
SKL 153C	800	50	3.2	153	6.05
	1300	50	3.2	153	6.05
	1600	50	3.2	153	6.05
	1900	50	3.2	153	6.05
SKL 153D	1300	75	3.2	153	7.25
	1600	75	3.2	153	7.25
	1900	75	3.2	153	7.25
SKL 203A	800	50	2.0	203	4.5
	1300	50	2.0	203	4.5
SKL 203B	800	50	2.5	203	5.71
	1300	50	2.5	203	5.71
	1600	50	2.5	203	4.85
SKL 203C	800	50	3.2	203	7.24
	1300	50	3.2	203	7.24
	1600	50	3.2	203	7.24
	1900	50	3.2	203	7.24
SKL 203D	1300	75	3.2	3.2	8.57
	1600	75	3.2	3.2	8.57
	1900	75	3.2	3.2	8.57

固定配件
Fixing Accessories For Lintels

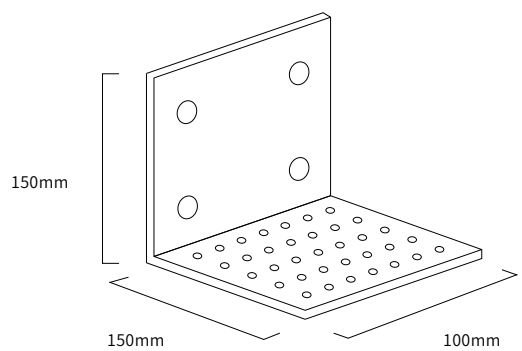
製品規格表 Product Specifications

托座參考號碼 Bracket Reference	適用於楣樑之編號 Suitable for lintels	最大負載荷 Maximum Load(KN) / 托座 Bracket	
SLB 1030	SKL 100-SKL 103A,B,C,D	5.00	8.00
		2 No.- 8/10	4 No.- 8/10
SLB 100	SKL 100-SKL 103A,B,C,D	4.50	7.20
		2 No.- 8/10	4 No.- 8/10

金屬擴張固定器 Metal expasion anchors



SLB 1030
厚度 Thickness: 3.0mm



SLB100
厚度 Thickness: 3.0mm

上鎧鋼鐵
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