MAINTENANCE

SINGLE SHEET&PANELS & FLOOR DECKING

钢构维护 —单板复合板楼承板

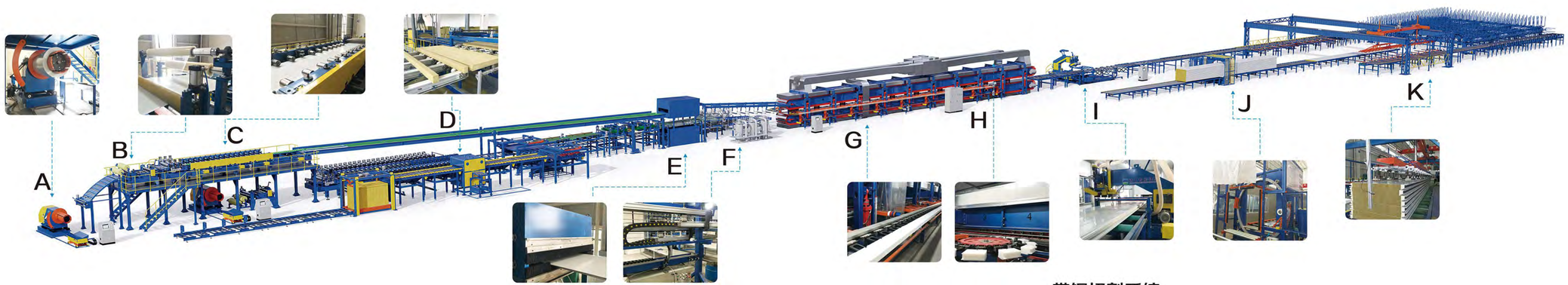
墙板与屋面板作为建筑围护系统的核心构件，具备轻质高强、安装便捷、节能环保等突出优势。板材成型精度高、结构稳定，可有效提升施工效率，缩短工期。其优异的防水、隔热、隔音性能，能显著改善建筑使用体验，降低后期运维成本。同时产品绿色环保、可回收利用，适配工业厂房、仓库、公共建筑等多种场景，是现代建筑轻量化、工业化建造的理想选择

As key components of the building envelope system, wall and roof panels feature light weight, high strength, easy installation, energy conservation and environmental protection. With high forming precision and stable structure, they effectively improve construction efficiency and shorten the construction period. Their excellent waterproof, thermal insulation and sound insulation properties significantly enhance the building experience and reduce later operation and maintenance costs. Green, environmentally friendly and recyclable, these panels are suitable for industrial workshops, warehouses, public buildings and other scenarios, making them an ideal choice for lightweight and industrialized modern construction.

PRODUCTION PROCESS
复合板生产线

It is used to produce roof and wall sandwich panels for steel structure buildings, such as PU sandwich panels and rock wool sandwich panels. These panels integrate load-bearing, thermal insulation, fire resistance, and decorative functions. This is the core production equipment for the envelope system of steel structure buildings.

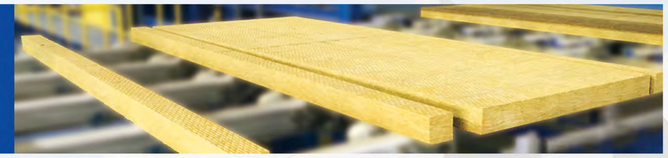
生产钢结构建筑的屋面、墙面夹芯板，如 PU 夹芯板、岩棉夹芯板等，这些板材兼具承重、保温、防火和装饰功能。是钢结构建筑围护系统的核心生产设备。



流程：从左到右依次是开卷、成型、复合发泡 / 岩棉填充、固化、切割、码垛等工序，实现板材的连续自动化生产。

From left to right, the processes include uncoiling, forming, composite foaming / rock wool filling, curing, cutting, and stacking, enabling continuous automated production of the panels.

SANDWICH PANELS 复合板



复合板是当下最常用的节能建筑屋面和墙面材料。根据保温材料的不同，可以适应于不同的建筑类型，例如要求防火的建筑，要求保温性能很强的建筑等。对于钢结构节能建筑而言，是最好的维护结构搭配。

Sandwich panels are the most commonly used roof and wall cladding materials for energy-efficient buildings today. Depending on the insulation material, they can adapt to different building types, such as fire-resistant buildings and buildings requiring high thermal insulation performance. For steel-structured energy-efficient buildings, they are the optimal choice for envelope structure matching.

Italian Iko Sandwich Panel Continuous Production Line

爱科复合板连续生产线

公司拥有全套意大利爱科复合板连续生产线，采用全球先进的聚氨酯岩棉核心生产工艺，七组分现场发泡技术，保证产品性能稳定性，超长双履带保证了产品的板面平整度。年产可达到 300 万平方米。

The company is equipped with a complete set of Italian continuous composite panel production lines. It adopts the world's advanced polyurethane-rock wool core production process and seven-component on-site foaming technology to ensure the stability of product performance. The extra-long dual caterpillar tracks guarantee the surface flatness of the product, with an annual output capacity of up to 3 million square meters.

Production Strength Guarantee 生产实力保障

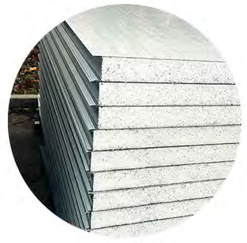
Metal Curtain Wall Sandwich Panel(Rock Wool /Fiberglass/EPS /PU /PIR Core Material)

金属夹心板(岩棉板/玻璃棉心板/EPS 板/PU板/PIR板)

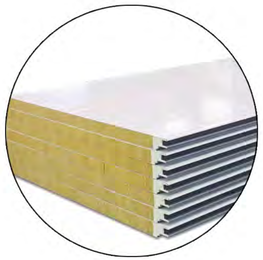
新型防火岩棉/玻璃棉夹芯板选用两层高品质的彩色涂层钢板或其它精密压型的金属板材微面板，压成型后，将分条后的岩棉/玻璃棉90度翻转(使其纤维垂直于上下两层钢板)，通过高强度的、高粘结力的、高防火的粘结剂，将优质岩棉/玻璃枪与金属面板强力粘接复合而成美观、平整、刚韧的建筑板材。成型后的板材具有优良的防火、保温环保等特点，
为工业建筑围护系统提供了一个绝佳的选择。

Combination of various core materials
多种芯材组合

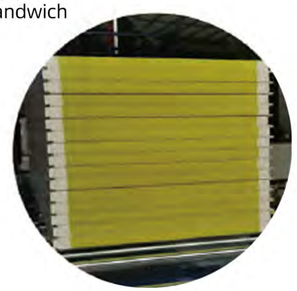
聚氨酯
Full PU Sandwich



EPS
Full EPS Sandwich



聚氨酯+岩棉
PU+Rock Wool Sandwich



玻璃丝+聚氨酯
Fiberglass+PU

The new type of fire-resistant rock wool/glass wool sandwich panel adopts two layers of high-quality color-coated steel plates or other precision roll-formed metal sheets as face panels. After roll forming, the slitted rock wool/glass wool is flipped 90 degrees (to make its fibers perpendicular to the upper and lower steel plates). Through high-stre ngth, high-adhesion and high-fire-resistance adhesives, the high-quality rock wool/glass wool is firmly bonded and compounded with the metal face panels to form an attractive, flat, rigid and tough building panel. The finished panel has excellent fire resistance, thermal insulation and environmental protection properties, providing an ideal choice for the enclosure system of industrial buildings.

芯材类型 Core Material Type	聚异氰脲酸酯芯材、岩棉、玻璃丝棉、聚氨酯、 聚氨酯封边岩棉（玻璃丝棉） 聚苯乙烯复合板 PIR ,All-rock wool, All-glass wool, All-polyurethane, Polyurethane-sealed edge rock wool (glass wool), Expanded Polystyrene

岩棉夹芯
Rock wool sandwich

玻璃丝棉夹芯
Glass wool sandwich

聚氨酯
PU

聚异氰脲酸酯芯材
PIR

聚苯乙烯夹心
EPS

Sandwich Panel Core Material Applications 复合板夹心材质应用适用场景

不同芯材导热系数对比表：
Comparison Table of Thermal Conductivity for Different Core Materials

芯材 Core Material	厚度(mm) Thickness	传热系数U/[W/(m²·K)]≤ Heat Transfer Coefficient
聚异氰脲酸酯芯材 PIR core	50	0.42
	100	0.21
	150	0.14
聚氨酯 PU core	50	0.45
	100	0.23
	150	0.16
聚苯乙烯复合板 EPS core	50	0.65
	100	0.34
	150	0.23
岩棉 Rock wool core	50	0.85
	75	0.60
	100	0.46
	150	0.31
玻璃棉 Fiberglass core	50	0.90
	100	0.48
	150	0.33

保温性能：PIR > PU > EPS > 岩棉 / 玻璃棉
Insulation Performance: PIR > PU > EPS > Rockwool / Glass Wool

PIR：冷库、高端厂房、洁净车间（高保温首选）
PIR: Cold storage, high-end factories, clean rooms (Top insulation choice)

PU：普通厂房、商业建筑（性价比之选）
PU: General factories, commercial buildings (Cost-effective option)

EPS：临时建筑、简易厂房（低成本刚需）
EPS: Temporary buildings, simple workshops (Low-cost necessity)

岩棉 / 玻璃棉：消防重点项目（A 级防火优先）
Rockwool / Glass Wool: Fire-critical projects (Class A fire resistance priority)

PIR 芯材保温性能最优：同厚度下，PIR 夹芯板的传热系数显著低于其他芯材，是冷库、高端厂房、洁净车间等高标准保温场景的首选。

PU 芯材保温性能优异，性价比突出：PU 芯材保温效果仅次于 PIR，在普通工业厂房、商业建筑中，以远低于 PIR 的成本实现接近的保温效果，是市场主流选择。

EPS 芯材保温性能中等，适合低成本场景：EPS 芯材传热系数高于 PU/PIR，仅适用于对保温要求不高的临时建筑、简易厂房等低成本项目。

岩棉 / 玻璃棉芯材保温性能最弱：岩棉、玻璃棉的传热系数远高于有机泡沫芯材，其核心优势为 A 级防火，而非保温。

所有芯材的保温性能均随厚度增加而显著提升：厚度每增加 50mm，传热系数（U 值）大幅下降，且有机芯材的保温提升幅度远优于无机芯材。

PIR core delivers the best thermal insulation performance： PIR is thetop choice for cold storage, high-end factories and clean rooms.

PU core offers excellent insulation with outstanding cost-effectiveness：Its is close to PIR at a much lower cost, making it the mainstream for industrial buildings.

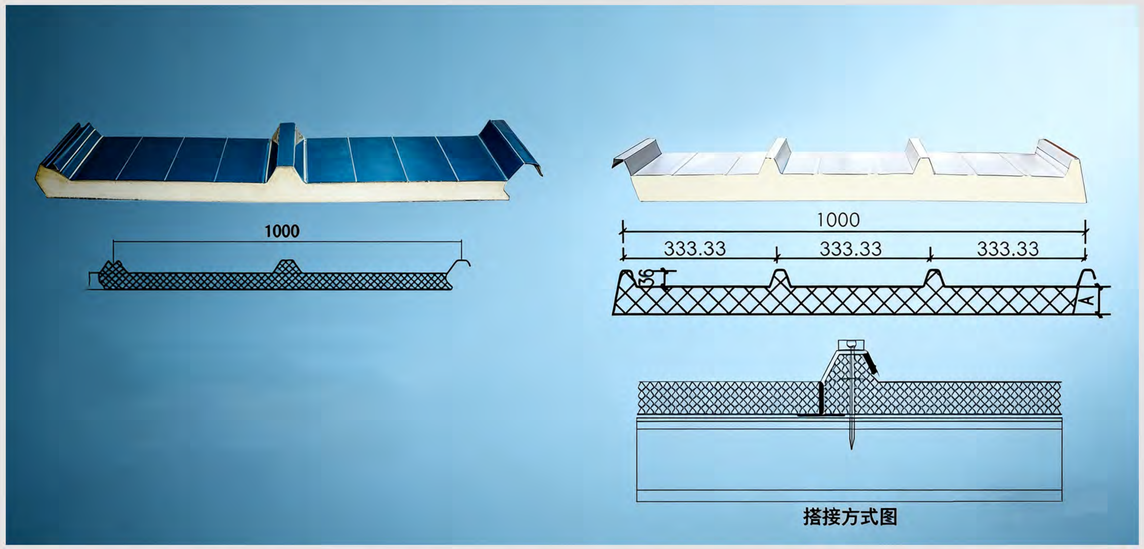
EPS core is suitable for low-cost, low-insulation-requirement projects：EPS is ideal for temporary buildings and simple workshops.

Rockwool/Fiberglass cores have the weakest insulation. They have far higher U-values than organic foams; their key strength is Class A fire protection, not insulation.

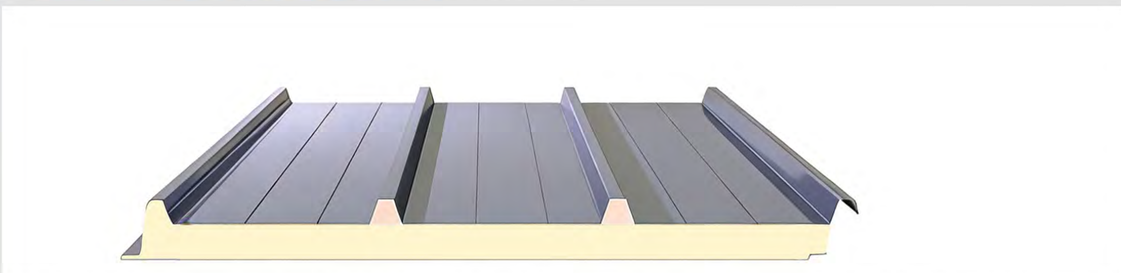
All cores insulate better as thickness increases, with organic cores showing far greater U-value reduction

PU PIR Sandwich Panel Series
PU/PIR复合板 系列

PU/PIR Panel Parameters
PU/PIR 复合板尺寸参数



PU Sandwich Roof Panel PU 屋面板

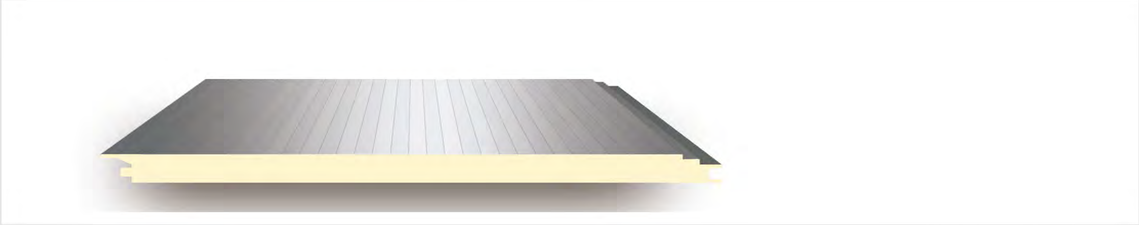


材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
聚氨酯（PU）	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

Load & Thermal Insulation Parameters of PU Composite Roof Panel
PU 复合板屋面板荷载和隔热系数

S（mm）	k kcal/·h·℃	板重 kg/m²		板面有载	P				P			
		0.5/0.4mm	0.6/0.6mm	P=kg/m²	50	75	100	150	50	75	75	150
30	0.45	9.24	11.7	L=	4.76	4.25	3.65	2.9	4.25	3.78	3.78	2.6
40	0.36	9.59	12.1	L=	5.06	4.55	3.9	3.2	4.55	3.9	3.9	2.85
50	0.31	9.94	12.5	L=	5.36	4.77	4.1	3.35	4.8	4.1	4.1	3
60	0.26	10.29	12.9	L=	5.72	5.03	4.35	3.55	5.05	4.3	4.3	3.15
75	0.21	10.99	13.7	L=	6.26	5.52	4.8	3.95	5.55	4.7	4.7	3.45
100		11.69	14.5									
120		12.39	15.3									

PU Sandwich Wall Panel PU 墙面板



材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
聚氨酯(PU)	500-1200 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、200mm、（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护

Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

PU Wall Panel (Load & Thermal Insulation Data)
PU 墙面板（荷载及保温性能参数）

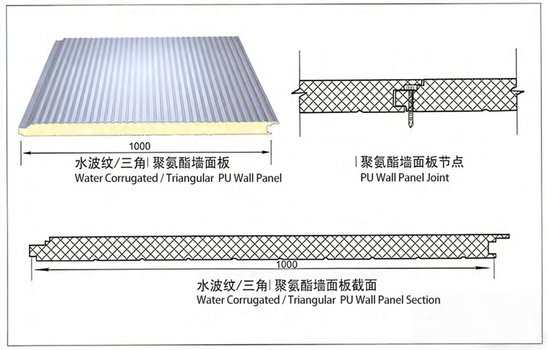
厚度 Thickness (mm)	导热系数 Thermal Conductivity k (kcal/(h·℃·m))	重量 Weight (kg/m²)	最大跨度（多跨连续梁） Max Span (Multi-span) (m)	最大跨度（简支梁） Max Span (Simple Support) (m)	抗风荷载能力 Wind Load Capacity (kN/m²)
30	0.45	11.7	4.25/3.78	4.25/3.78	0.5/1.5
50	0.31	12.5	4.80/4.10	4.80/4.10	0.5/1.5
75	0.21	13.7	5.55/4.70	5.55/4.70	0.5/1.5

PU PIR Sandwich Panel Series

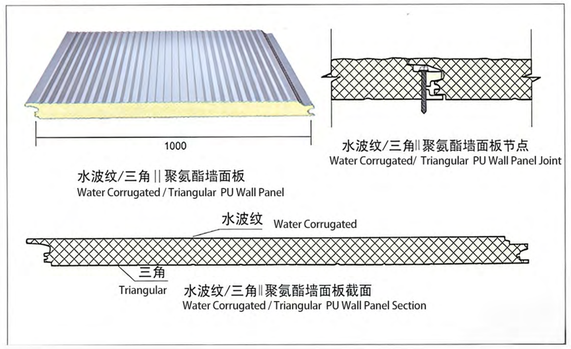
PU/PIR复合板 系列

PU Sandwich Wall Panel Install Node PU墙板 安装节点

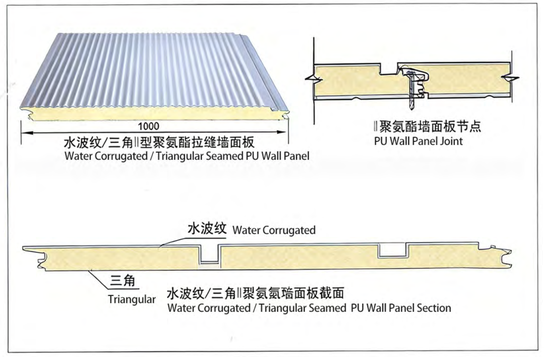
Small corrugated seamless 1000-50（75，100）
小波纹无拉缝 1000-50（75，100）



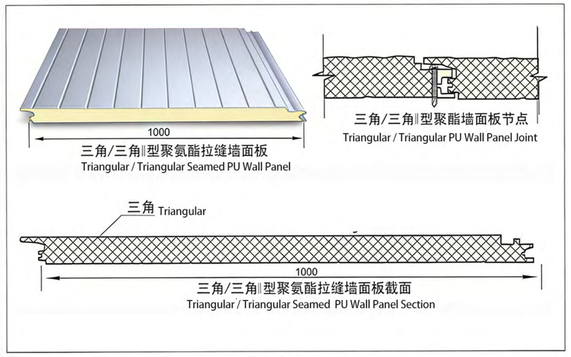
Small corrugated seamless 1000-50（75，100）
小波纹无拉缝 1000-50（75，100）



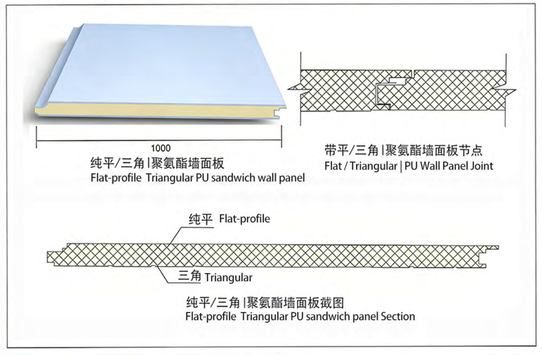
Small corrugated seamed 1000-50（75，100）
小波纹有拉缝 1000-50（75，100）



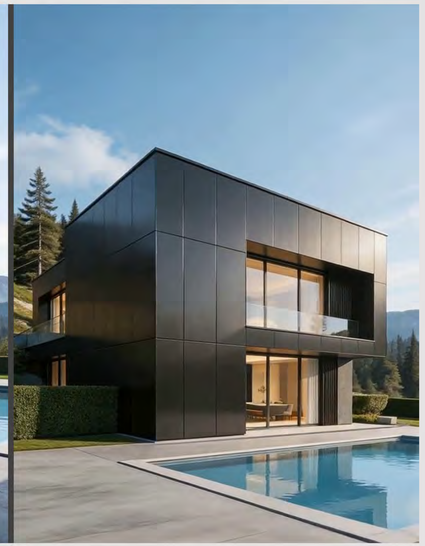
Triangular corrugated seamed 1000-50(75, 100)
三角形有拉缝 1000-50（75，100）



Triangular flat-profile seamless 1000-50（75，100）
三角纯平无拉缝1000-50（75，100）

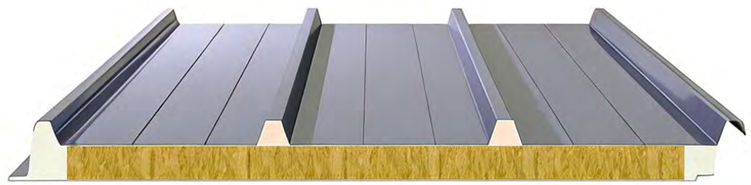


Wall Panel Installation Effect 墙板安装效果



PU Edge-Sealed Rockwool Sandwich Panel Series
PU 封边复合板 系列

PU Edge-Sealed Rockwool Sandwich Roof Panel PU封边 岩棉复合 屋面板



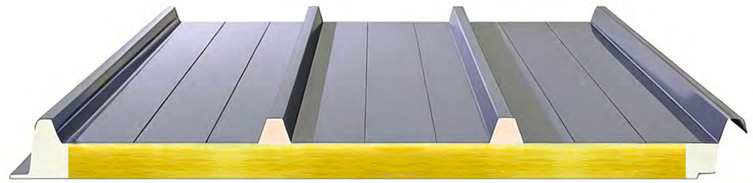
材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
岩棉夹心 PU封边	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

PU Edge-Sealed Rockwool Sandwich Wall Panel PU封边 岩棉复合墙面板

材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
岩棉夹心 PU封边	500-1200 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、200mm（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护。

Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

PU Edge-Sealed Fiberglass Sandwich Roof Panel PU封边 玻璃丝棉复合屋面板



材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
玻璃丝棉 PU封边	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

PU Edge-Sealed Fiberglass Sandwich Wall Panel PU封边 玻璃丝棉复合墙面板

材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
玻璃丝棉 PU封边	500-1200 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、200mm、（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护。

Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

Wall Panel Parameter Description
墙面板参数说明

Advantages of Wall Panels 墙面板产品优势

1、轻型、新颖、造型完美。重量一般在 10kg/m²-14kg/m²，相当于砖墙的 1/30。表面色泽鲜艳，无需表面装饰。
2、强度、刚度、稳定性、抗冲击性、抗震性良好，具有耐腐蚀性、耐大气性。可用于围护结构、称重结构，一般房屋不用梁柱。
3、保温、隔热、隔音性能优良。在防结露性能方面，35mm 厚的金属墙面板相当于 1130mm 红砖墙。
4、预制装配化程度高，施工时受恶劣气候影响小，因此较传统的施工方法，施工周期可以缩短 40% 以上。
5、防火性能：燃烧性能 B 级，最高使用温度为 180℃（允许瞬间 250℃）在火焰的直接作用下具有结碳、无滴落物、无卷曲、无熔化现象，火焰燃烧后表面形成一层“石墨泡沫”层，有效保护层内的泡沫结构。

1. Lightweight, novel, and perfect in shape. The weight is generally 10kg/m2-14kg/m2, which is equivalent to 1/30 of a brick wall. The surface color is bright and no surface decoration is required.

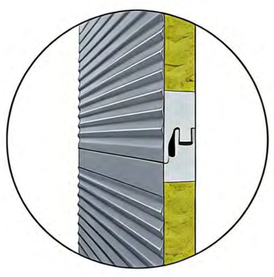
2. Good strength, rigidity, stability, impact resistance, and earthquake resistance, and is corrosion-resistant and atmospheric-resistant. It can be used for enclosure structures and weighing structures. Generally, beams and columns are not used in houses.

3. Excellent thermal insulation, heat insulation and sound insulation performance. In terms of anti condensation performance, a 35mm thick metal wall panel is equivalent to a 1130mm red brick wall.

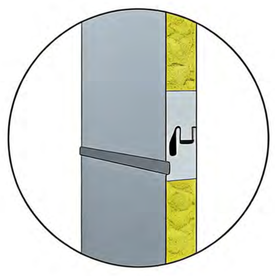
4. The degree of prefabrication and assembly is high, and the construction is less affected by the bad weather. Therefore, compared with the traditional construction method, the construction period can be shortened by more than 40%.

5. Fire resistance: Combustion performance class B, the maximum use temperature is 180℃ (allowing instantaneous 250℃) under the direct action of the flame, it has carbonization, no dripping, no curling, and no melting. After the flame burns, a layer of "graphite foam" is formed on the surface, which effectively protects the foam structure in the layer.

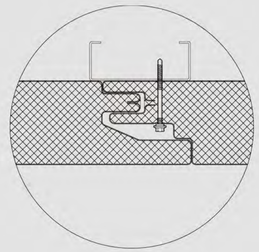
Decorative Seam Effect Can Be Produced
可产生装饰缝效果



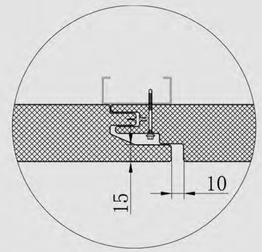
隐钉无缝搭接
Concealed Fastener Seamless Lap Joint



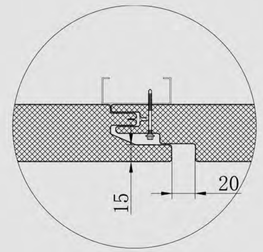
隐钉有缝搭接
Concealed Fastener Lap Joint with Gap



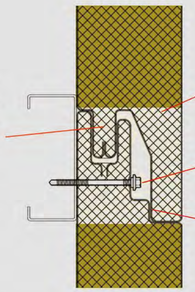
无装饰缝
No decorative seam



10mm装饰缝
10mm decorative seam



20mm装饰缝
20 mm decorative seam



特殊插接口构造，保证强风下围护系统可靠的抗风性能。
The special plug interface structure ensures the reliable wind resistance of the enclosure system under strong winds.

聚氨酯侧封技术，大幅加强钢板整体承载力，保证插接口整体强度。
Polyurethane side sealing technology greatly enhances the overall bearing capacity of the steel plate and ensures the overall strength of the plug interface.

自攻钉隐藏，保证墙面美观及防止钉头锈蚀。
The self-tapping screws are hidden to ensure the beauty of the wall and prevent the nail head from rusting.

刚性防水板型插接口，防止雨水返渗。
Rigid waterproof plate type plug interface to prevent rainwater from seeping back.

Panel Core Parameter Description
面板芯材参数说明

新型防火岩棉夹芯板芯材指标
Core material index of new fireproof rock wool sandwich panel

性能 Properties	单位 Unit	密度≥ 100kg/m³ Density≥100kg/m³	密度> 120kg/m³ Density≥120kg/m³	标准 Standards
抗压强度 Compressive strength	kpa	85	105	EN 826
剪切强度 Shear strength	kpa	60	80	EN 12090
抗拉强度 Tensile strength	kpa	170	220	EN 1607
渣球含量 Slag ball content	%	<5(粗渣球尺寸 >0.25mm) <5(Size of coarse slag ball>0.25mm) <30(细微渣球尺寸 >63μm) <30(Size of fine slag ball>63um)		ASTM C1335 ASTM C 1335
岩棉板的导热系数 (平均温度 25℃) Heat conductivity coeffcient of rock wool panel (average temperature25℃)	w/(m·K)	0.035-0.040(密度 Density 100-140kg/m°)		GB/T 10295 ASTM C518 EN 12667
防火性能 Fireproof rating	——	不燃性材料Noninfammable material 对火反应A级 A reaction to fire		EN ISO 1182 GB/T5464
	——			EN 1350-1 GB 8624
耐火极限 Fire-resistant limit(FRL)		根据夹芯板的构造和厚度不同，耐火极限 30 到 240 分钟不等 According to the structure and thickness of sandwich panel, FRL is between 30mins and 240mins		
吸湿率(重量比) Hydroscopicity (weight ratio)	%	≤ 0.5		JGJ/T 473-2019
憎水率(针对憎水性产品) Hydrophobicitylspecifc to hydrophobic products)	%	>98		JGJ/T 473-2019 GBT11835
老化膨胀率 Ageing and expansion rate	%	<5(在温度 65℃和相对湿度 >95% 条件下 24 小时后的厚度变化率) <5 (Thickness change rate after 24 hours under the statof 65℃)		EN 14509
熔化温度 Melting femperature	℃	>1000		——
纤维直径 Fiber diameter	um	6.0		JGJ/T 473-2019

注：通常把导热系数较低的材料称为保温材料 (我国国家标准规定，凡平均温度不高于 350℃时导热系数不大于 0.12w/(m・K) 的材料称为保温材料)，而把导热系数在 0.05w/(m・K) 以下的材料称为高效保温材料。

Note: usualy, the material with low heat conductivity coeficient is regarded as thermal insulation material (it is stipulated that all the materials with heat conducivity coeffcient no more than 0.12w/(m·k) when the temperature is lower than 350℃ called thermal insulation materials in national standard), and the material with a heat conductivity coefficient less than 0.05w/(m·k) is named high-efficient thermal insulation material.

Technical Parameters of New-Type Fireproof Rock Wool Sandwich Panel
新型防火岩棉夹芯板技术参数

(下表计算取岩棉容重 120kg/m³。外钢板 0.6mm，内钢板 0.5mm。)
(The values in the following table are calculated on the basis of a rock wool density of 120kg/m³, a 0.6mm outer steel sheet and a 0.5mm inner steel sheet.)

新型防火岩棉夹芯板墙面板允许使用跨度及传热系数 (允许变形 f≤L/200)
Allowable vertical load and heat transfer coefficient of new model fireproof rock wool sandwich wall panel (allowable deflection f ≤ L/200)

板厚S(mm) Panel thickness	传热系数 W/m²k Heat transfer	重量G(kg) Weight	荷载P=KN/m² Loads	0.60	0.80	1.00	1.20	1.50
50	0.75	15.74	L(m)	3.78	3.31	2.98	2.71	2.41
75	0.53	18.68	L(m)	4.83	4.21	3.76	3.42	3.01
100	0.41	21.62	L(m)	5.77	5.02	4.47	4.04	3.55
150	0.31	27.51	L(m)	7.53	6.54	5.82	5.26	4.61

新型防火岩棉夹芯板墙面板允许使用跨度及传热系数 (允许变形 f≤L/240)
Allowable vertical load and heat transfer coefficient of new model fireproof rock wool sandwich wall panel (allowable deflection f ≤ L/240)

板厚S(mm) Panel thickness	传热系数 W/m²k Heat transfer	重量G(kg) Weight	荷载P=KN/m² Loads	0.60	0.80	1.00	1.20	1.50
50	0.75	15.74	L(m)	3.78	3.31	2.98	2.71	2.41
75	0.53	18.68	L(m)	4.83	4.21	3.76	3.42	3.01
100	0.41	21.62	L(m)	5.77	5.02	4.47	4.04	3.55
150	0.31	27.51	L(m)	7.53	6.54	5.82	5.26	4.61

Panel Core Parameter Description
面板芯材参数说明

新型玻璃棉芯材指标
Core Material Index of New Model Fireproof Fiberglass Sandwich Panel

性能 Properties	测试标准 Test standards	测试结果 Test results
纤维直径(μm) Fiber diameter (μm)	GB/T5480.4	5.0~7.0
渣球含量(%) Slag ball content(%)	GB/T5480.4	0
燃烧性能级别 Combustibility rating	GB 8624	A 级(不燃材料) Grade A(incombustible material)
含水率(%) Moisture content(%)	GB/T13350	0.4
导热系数(w/(m·K))(平均测试温度 25℃) Heat conductivity coefficient(w/(m·K)) (The average test temperature as 25℃)	GB/T10295	0.031-0.036
降噪系数(NRC) Noise reduction coefficient (NRC)	JC/T469	0.70
隔音量(Rw) (Rw)Sound reduction index	GBJ75-84	≤ 34

Technical Parameters Of New-Type Fireproof Fiberglass Sandwich Panel
新型防火玻璃芯材技术参数

(下表计算取玻璃棉容重 64kg/m³。外钢板 0.6mm，内钢板 0.5mm;)
(The values in the following table are calculated on the basis of a glass wool density of 64kg/m³, a 0.6mm outer steel sheet and a 0.5mm inner steel sheet.)

新型防火玻璃棉夹芯板墙面板允许使用跨度及传热系数 (允许变形 f≤L/200)
Allowable vertical load and heat transfer coefficient of new model fireproof glass wool sandwich wall panel (allowable deflection f ≤ L/200)

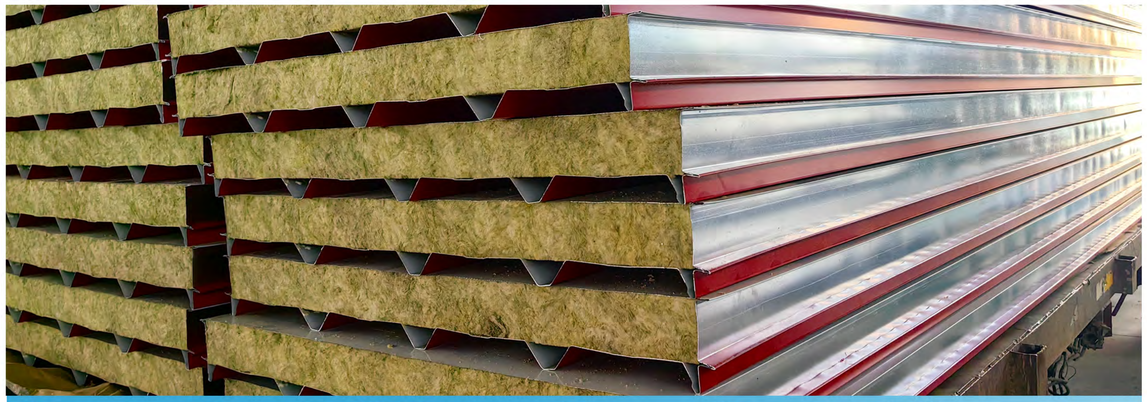
板厚S(mm) Panel thickness	传热系数 W/m²k Heat transfer	重量G(kg) Weight	荷载P=KN/m² Loads	0.60	0.80	1.00	1.20	1.50
50	0.69	12.95	L(m)	3.74	3.23	2.86	2.57	2.23
75	0.47	14.50	L(m)	5.01	4.34	3.86	3.48	3.05
100	0.36	16.04	L(m)	6.12	5.32	4.73	4.28	3.75
150	0.33	19.14	L(m)	8.00	6.94	6.18	5.58	4.89

新型防火玻璃棉夹芯板墙面板允许使用跨度及传热系数 (允许变形 f≤L/240)
Allowable vertical load and heat transfer coefficient of new model fireproof glass wool sandwich wall panel (allowable deflection f ≤ L/240)

板厚 S(mm) Panel thickness	传热系数 W/m²k Heat transfer	重量G(kg) Weight	荷载P=KN/m² Loads	0.60	0.80	1.00	1.20	1.50
50	0.69	13.10	L(m)	3.84	3.38	3.05	2.79	2.49
75	0.47	14.73	L(m)	4.93	4.31	3.87	3.52	3.12
100	0.36	16.36	L(m)	5.89	5.15	4.60	4.18	3.69
150	0.33	19.61	L(m)	7.69	6.71	6.00	5.44	4.80

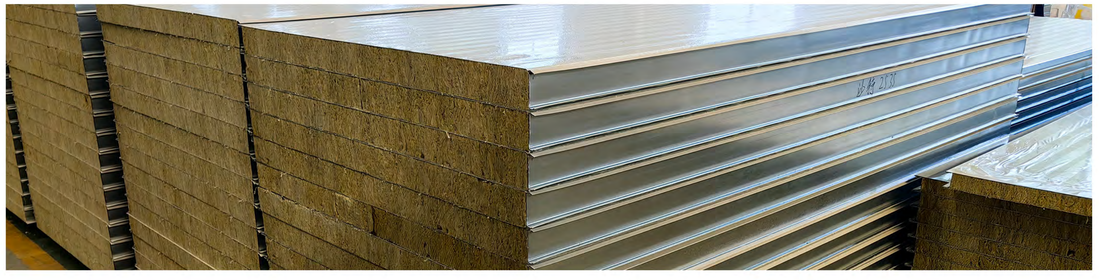
H-Joint Sandwich Panel
H 插口复合板

Full Rock Wool Sandwich Roof Panel 岩棉复合 屋面板



材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
岩棉 Rock wool	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

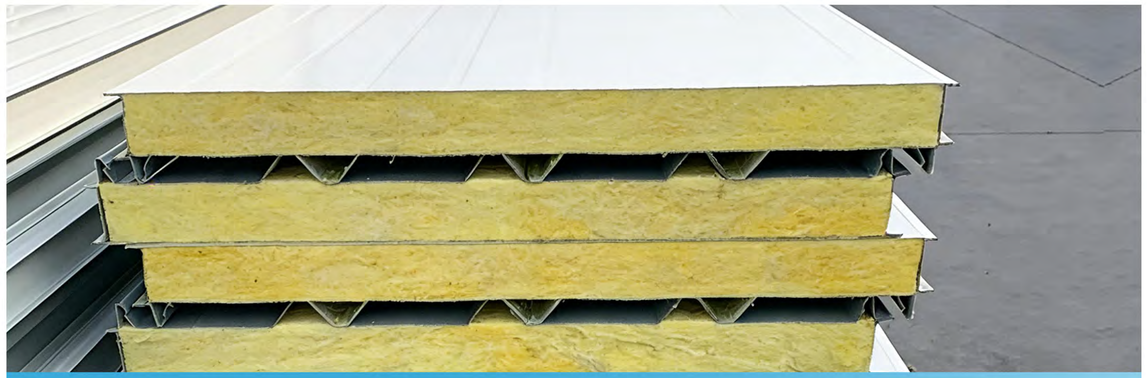
Full Rock Wool Sandwich Wall Panel 岩棉复合 墙面板



材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
岩棉 Rock wool	500-1000 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护。

Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

Full Fiberglass Sandwich Roof Panel 玻璃丝复合板 屋面板



材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
玻璃丝 Fiberglass	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

Full Fiberglass Sandwich Wall Panel 玻璃丝复合板 墙面板

材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
玻璃丝 Fiberglass	500-1000 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护。

Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

H-Joint Sandwich Panel
H插口 复合板

Full EPS Sandwich Roof Panel EPS复合 屋面板

材质 Material	厚度mm Thickness(mm)	彩钢厚度mm Steel Thickness(mm)	宽度mm Width(mm)	涂层 Coating	导热系数 Thermal Conductivity
EPS	50-150	0.4-0.8	1000	PVDF SMP HDP PE	≤0.023w/m・k ≤0.035~0.041w/m・k ≤0.037~0.043w/m・k

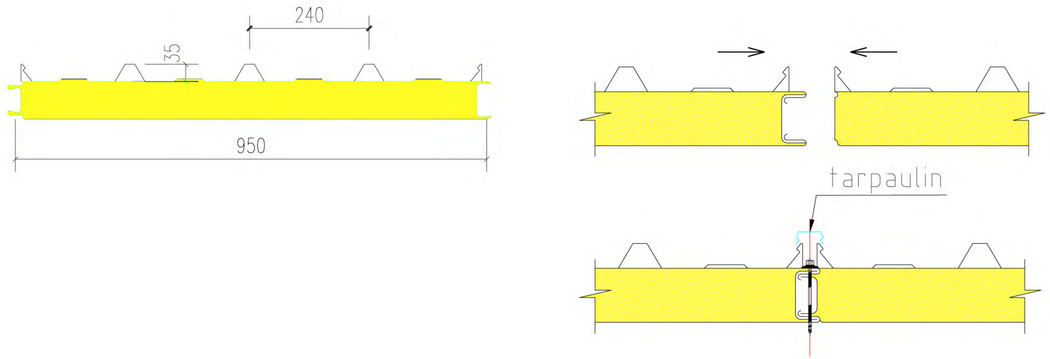
Full EPS Sandwich Sandwich Wall Panel EPS复合 墙面板

材质 Material	墙板宽度mm Width(mm)	面材 Panel Material	墙板厚度mm Wall Thickness(mm)	适用范围 Application Range
EPS	500-1000 MM	0.4-0.8MM 彩色涂层钢板	50mm、75mm、80mm、100mm、120mm、150mm、（根据客户要求定做）	各类工业厂房、民用建筑及公共建筑等特有的非承重墙面围护。

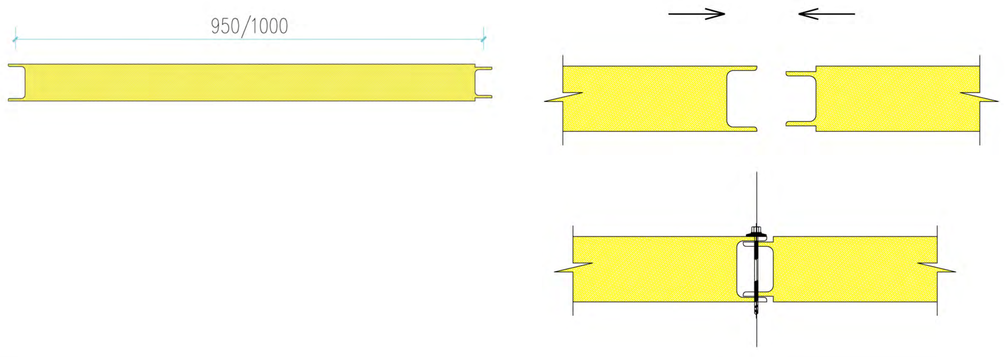
Scope of application: various types of industrial plants, civil buildings and public buildings, etc., special non-load-bearing wall enclosures.

H Jiont Roof &Wall Panel Dimensions And Insertion Node Diagram
H插口 屋面板 墙面板尺寸及安插节点图

Roof Panel Dimensions and Node Diagrams
屋面板尺寸、节点图



Wall Panel Dimensions and Node Diagrams
墙面板尺寸、节点图

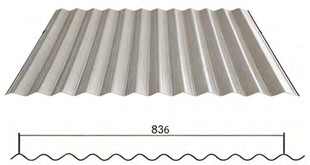


Panel Parameter Comparison Description
面板芯材参数对比

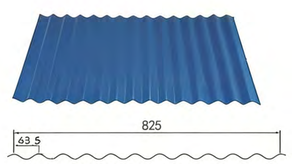
Panel Parameter Comparison Description
面板参数对比说明

Item 名称	Fiber Glass Sandwich Panel 玻璃丝绵复合板	Rock Wool Sandwich Panel 岩棉复合板	Polyurethane (PU) Sandwich Panel 聚氨酯复合板	Polyisocyanurate (PIR)) Sandwich Panel 聚异三聚氰酸酯复合板	Polystyrene(EPS) Sandwich Panel EPS 复合板
Fire Proof 防火性能	Grade A (non-combustion) A 级	Grade A (non-combustion) A 级	GradeB2 (combustible) B2 级	Grade]B1 (combustible) B1 级	Grade B3 (combustible) B1 级
Insulation Material Density 密度	40-60kg/m³	80-120kg/m³	40-43kg/m³	40-43kg/m³	7-20kg/m³
Water Absorption For 24 Hours 吸水率	Absorbing Water 吸水	Absorbing Water 吸水	<3v/v	<3v/v	<8v/v
Noise Insulation Factor Coefficient 隔音性能	24.5db	21.5db	12db	12db	18db
Thermal Conductivity Coefficient 导热系数	≤0.04w/m.k	≤0.04w/m.k	≤0.025w/m.k	≤0.025w/m.k	0.03-0.04w/m.k
Steel Sheet Thickness 彩板厚度	0.3-0.6 mm	0.4-0.6 mm	0.4-0.6 mm	0.4-0.6 mm	0.3-0.6 mm
Sandwich Panel Width 宽度	950mm	950mm	1000mm	1000mm	950mm、1150mm
Sandwich Panel Thickness 厚度	50-200mm	50-200mm	50-150mm	50-150mm	50-250mm
Characteristics	Light In Weight. Good Heat And Sound Insulation. Fire Proof, Anti-corrosion.	Density Of The Rock Wool Is Big. Good Heat And Sound insulation. Fire Proof, Anti-corrosion.	Light in Weight. Very Good Heat And Sound Insulation. Anti-corrosion.	Light in Weight. Very Good Heat And Sound Insulation. Anti-corrosion.	Light In Weight. Very Good Heat And Sound insulation. Anti-corrosion.
特点	容重轻、隔热与隔音性能好、不燃、抗腐蚀	岩棉密度大、隔热与隔音性能好、不燃、抗腐蚀	容重较小、隔热与隔音性能极佳、抗腐蚀	容重较小、隔热与隔音性能极佳、抗腐蚀	容重较小、隔热与隔音性能极佳、抗腐蚀

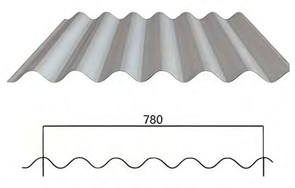
Steel Sheet Series
金属单板系列



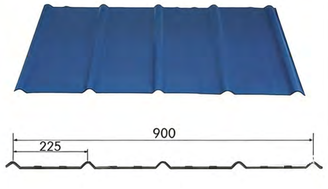
压型钢板型号	TYPE	YX18-76-836		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	836		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面板 墙面 ROOF WALL SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	2.45	2.94	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	2.57	3.07	



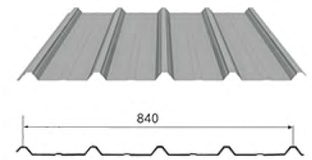
压型钢板型号	TYPE	YX18-63.5-825		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	825		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面板 ROOF SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	1.84	2.25	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	2.04	2.50	



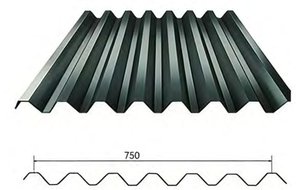
压型钢板型号	TYPE	YX32-130-780		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	780		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面板 ROOF SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	7.2	8.64	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	4.64	5.55	



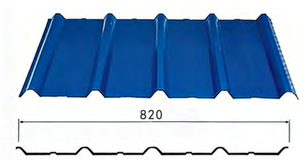
压型钢板型号	TYPE	YX15-225-900		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	900		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面板 墙面 内衬 ROOF WALL SHEET LINING
截面惯性矩 (cm⁴/m)	SECTION INERTIA	6.65	8.03	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	3.56	4.31	



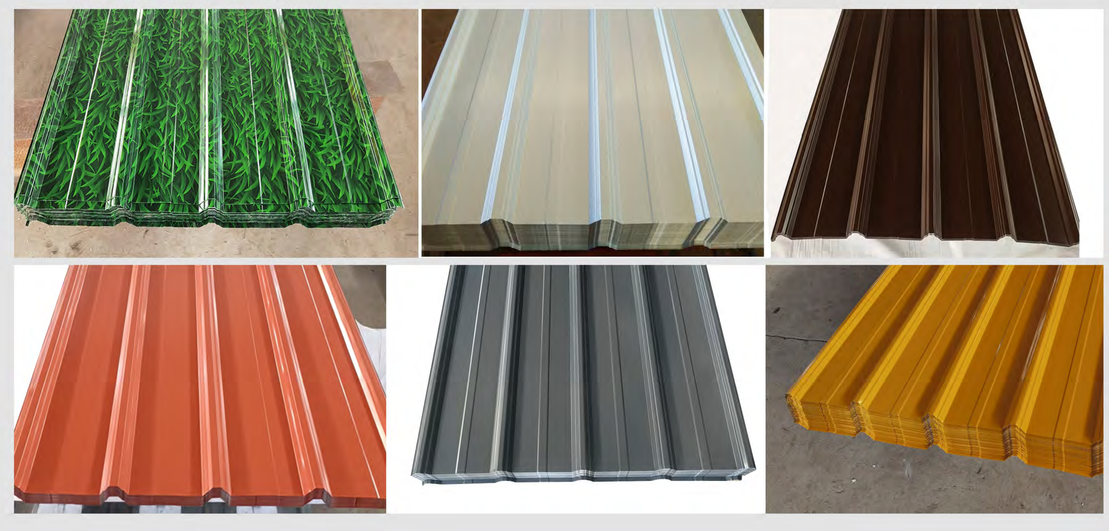
压型钢板型号	TYPE	YX25-210-840		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	840		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面墙面板 ROOF AND WALL SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	8.02	13.75	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	4.30	6.49	



压型钢板型号	TYPE	YX35-125-750		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	750		
展开宽度 (mm)	FEEDING WIDTH	1000		
板厚 (mm)	THICKNESS	0.4	0.8	屋面板 ROOF SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	11.54	13.85	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	6.23	7.48	



压型钢板型号	TYPE	YX20-205-820			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	820			
展开宽度 (mm)	FEEDING WIDTH	1000			
板厚 (mm)	THICKNESS	0.5	0.6	0.8	屋面墙面板 ROOF AND WALL SHEET
截面惯性矩 (cm⁴/m)	SECTION INERTIA	9.18	10.76	14.59	
截面抵抗矩 (cm⁴/m)	SECTION RESISTANCE	4.68	5.62	7.47	



PANEL COLORS & CUSTOMIZATION

丰富的面板色彩（更多面板颜色定制 ）

RAL 1000 | RAL 1003 | RAL 1028 | RAL 2002 | RAL 4005 | RAL 5008

RAL 5015 | RAL 6000 | RAL 7037 | RAL 8011 | RAL 9002

RAL 9005 | RAL 8004 | RAL 5021 | RAL 4006 | RAL 4007 | RAL 6029

PANEL PATTERNS & CUSTOMIZATION

丰富的面板花纹 可定制

迷彩板印花，效果丰富，可实现多层次、凹凸感、立体感。可模拟木材、石材、迷彩、布料、皮革、不锈钢、铜等其他材质的效果。

Camouflage printed steel sheet offers rich, multi-level, embossed and 3D effects. It can mimic the looks of wood, stone, fabric, leather, stainless steel, copper and other materials.

彩涂板珠光板，表面美观漂亮、色彩丰富，珠光白，闪银，金黄，非常适合装修用材。

Pre-painted steel sheets and pearlescent steel sheets feature an attractive surface and rich colors, such as pearlescent white, glitter silver, and golden yellow. They are ideal for decoration applications.

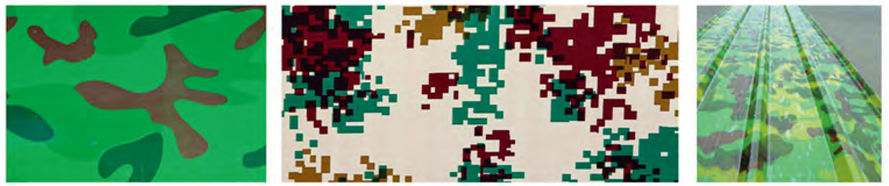
木纹彩钢以优越的表面纹路、以钢代木、降低成本及环保等优势在装饰、不脱色，不褪漆，防火，耐蚀环保。木质花纹适用于建筑装饰、顶板、墙板等。

Wood grain color steel features excellent surface texture. It replaces wood with steel, reduces costs and is eco-friendly. It is colorfast, non-fading, fireproof, corrosion-resistant and environmentally friendly.
The wood grain pattern is suitable for architectural decoration, ceilings, wall panels, etc

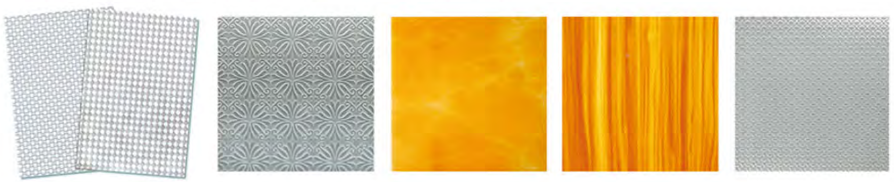
注:因印刷关系，以上颜色与实际颜色略有色差，请以实物为准。

Note: Due to printing, the above colors are slighty different from the actual colors, please refer to the actual product

迷彩板印花 camouflage printed steel sheet



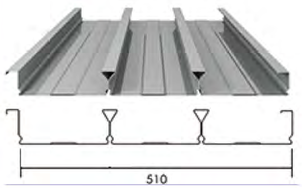
彩涂板 pearlescent steel sheet / pearl finish steel sheet



木纹彩钢板 Wood grain pre-painted steel sheet

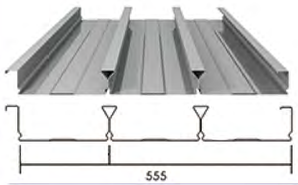
Prefab Metal Floor Deck Series
预制金属楼承板

■170-510闭口型



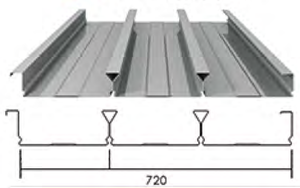
压型钢板型号	TYPE	170-510			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	510			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	98.60	132.35	186.68	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	22.41	28.01	33.61	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	15.49	19.36	23.23	

■185-555闭口型



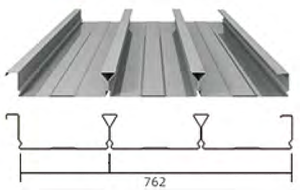
压型钢板型号	TYPE	185-555			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	555			
板厚 (mm)	THICKNESS	0.8	1.0	1.5	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	86.68	115.74	138.98	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	18.90	25.03	29.87	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	22.58	28.22	42.33	

■240-720闭口型



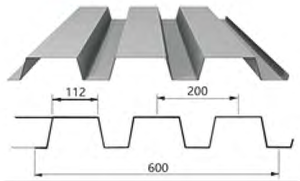
压型钢板型号	TYPE	240-720			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	720			
板厚 (mm)	THICKNESS	0.8	1.0	1.5	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	83.50	104.30	126.00	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	21.30	25.90	29.80	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	8.72	10.90	16.35	

■254-762闭口型



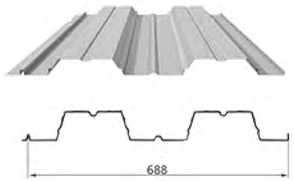
压型钢板型号	TYPE	254-762			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	762			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	71.21	85.86	106.29	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	39.89	41.52	47.88	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	8.23	10.29	12.35	

■200-600开口型



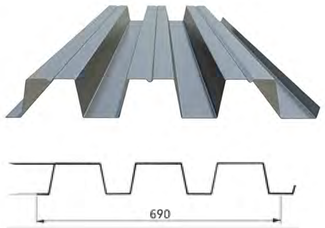
压型钢板型号	TYPE	200-600			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	600			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	89.90	119.30	151.84	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	21.95	29.99	39.39	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	10.47	13.08	15.70	

■344-688开口型



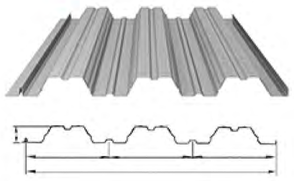
压型钢板型号	TYPE	344-688			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	688			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	119.5	148.2	180.1	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	28.54	35.68	42.83	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	9.13	11.41	13.69	

■230-690开口型



压型钢板型号	TYPE	230-690			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	690			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	126.20	157.70	189.20	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	32.28	40.47	48.57	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	11.01	13.77	16.52	

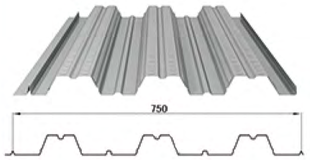
■240-720开口型



压型钢板型号	TYPE	240-720		用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	720		
板厚 (mm)	THICKNESS	0.8	1.0	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	51.64	64.55	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	16.56	20.70	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	8.72	10.09	

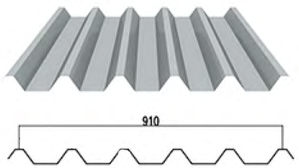
Prefab Metal Floor Deck Series
预制金属楼承板

■250-750开口型



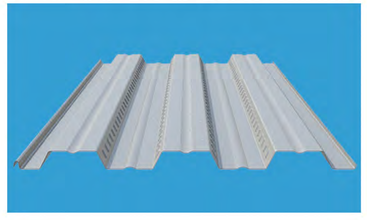
压型钢板型号	TYPE	250-750			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	750			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	8.37	10.47	12.56	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	10.98	13.53	16.48	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	8.37	10.47	12.56	

■182-910开口型

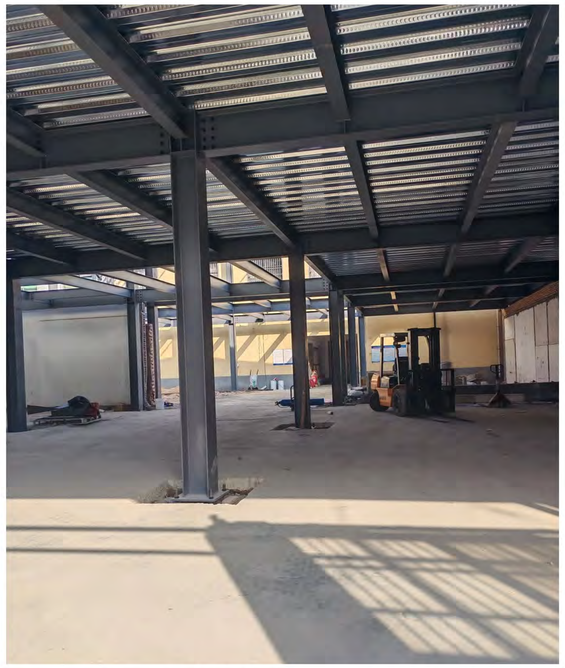


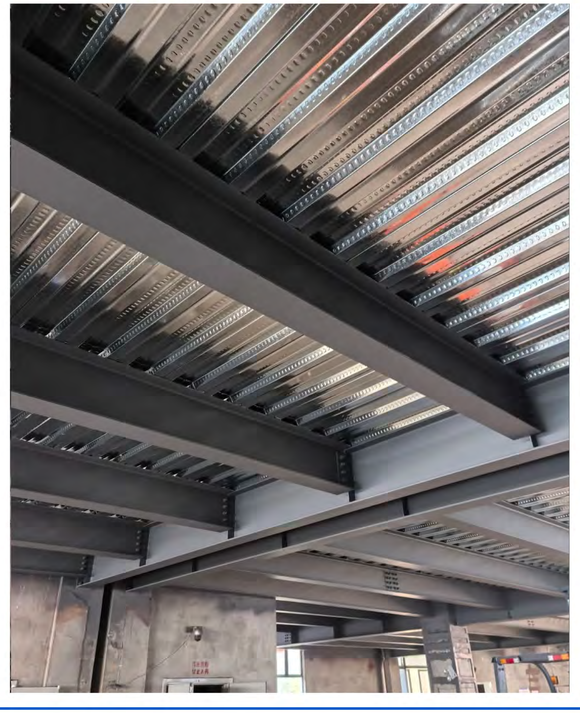
压型钢板型号	TYPE	182-910			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	910			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	56.73	64.97	80.13	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	60.28	71.26	85.69	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	6.90	8.63	10.35	

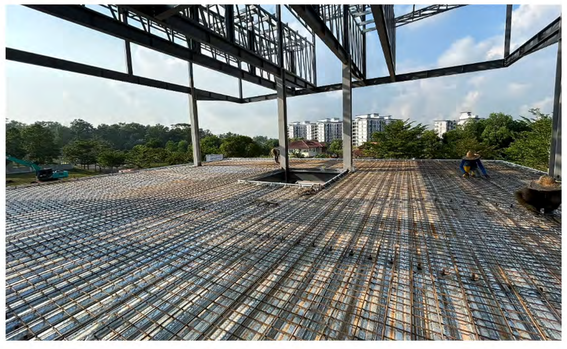
■305-915开口型

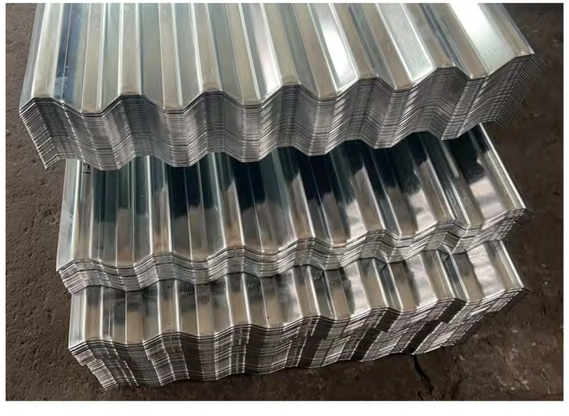


压型钢板型号	TYPE	305-915			用途 APPLICATION
有效覆盖宽度 (mm)	EFFECTED WIDTH	915			
板厚 (mm)	THICKNESS	0.8	1.0	1.2	楼承板 Steel Floor Deck
截面惯性矩 (cm⁴/m)	SECTION INERTIA	51.90	62.20	70.60	
截面抵抗矩 (cm³/m)	SECTION RESISTANCE	16.86	19.04	22.22	
压型板重量(KG/㎡)	PROFILED SHEET WEIGHT	7.96	8.92	9.92	









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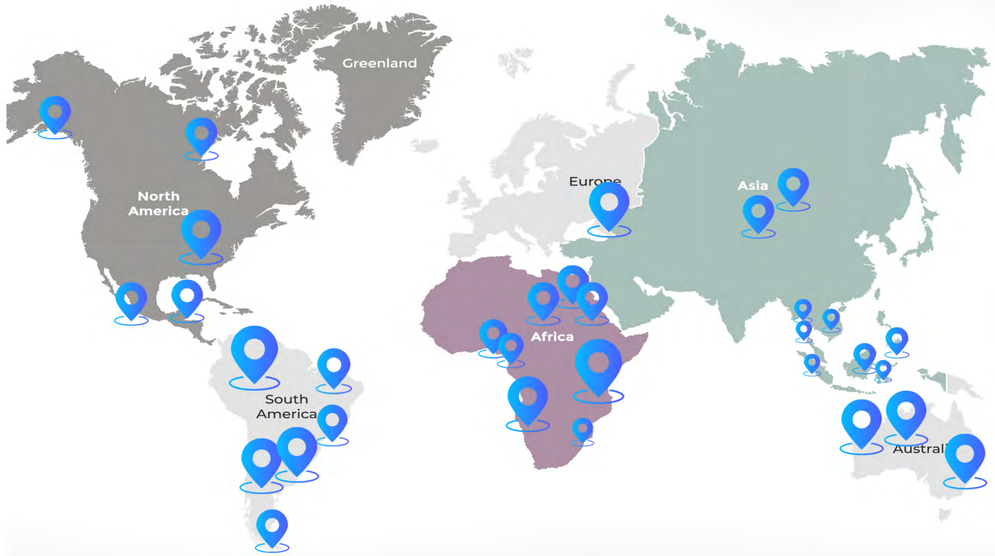
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